

## Mouse Cytokeratin 20 Monoclonal Antibody | anti-KRT20 antibody

Cytokeratin 20

|                              |                      |                                             |                                             |
|------------------------------|----------------------|---------------------------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA59206</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Dog, Cat, Mouse</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|------------------------------|----------------------|---------------------------------------------|---------------------------------------------|

### PRODUCT SYNONYMS

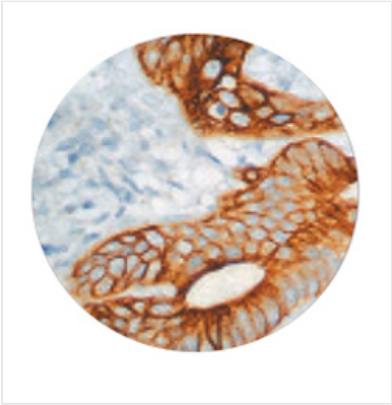
Cytokeratin 20; Monoclonal Antibody; anti-KRT20 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Reactivity                                      | Human, Dog, Cat, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype                                         | IgG2a/K                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clone Number                                    | Ks20.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Form/Format                                     | Cytokeratin 20 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-KRT20 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Immunogen                                       | Semi-purified human cytokeratin preparation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Control                                         | Colon Carcinoma, Colon Mucosa, Bladder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Localization                                    | Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reactivity Note                                 | Paraffin, Frozen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Precautions                                     | <ol style="list-style-type: none"> <li>1. This product contains &lt;0.1% sodium azide (NaN<sub>3</sub>) as a preservative. Ensure proper handling procedures are used with this reagent.</li> <li>2. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents.</li> <li>3. Dispose of unused solution with copious amount of water.</li> <li>4. Dispose of unused solution with copious amount of water.</li> <li>5. Avoid contact with eyes. If contact occurs, flush with large quantities of water.</li> <li>6. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).</li> <li>7. For additional safety information refer to Safety Data Sheet for this product.</li> <li>8. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical (see References in this document).</li> </ol> |
| Mounting Protocols                              | For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter or organic solvent based resin such as PermaMounter, please inquire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Preparation and Storage                         | Store at 2-8°C (Control Slides: Store at 20-25°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

| Normal Tissues                                              |                    |
|-------------------------------------------------------------|--------------------|
| Positive (+)                                                |                    |
| Normal Urothelium                                           |                    |
| Epithelium Lining the Villi (Duodenal Mucosa)               |                    |
| Negative (-)                                                |                    |
| Smooth Muscle                                               | Blood Vessel Walls |
| Lymph Nodes                                                 | Tumor Stroma       |
| Abnormal Tissues                                            |                    |
| Positive (+)                                                |                    |
| Adenocarcinoma (colonic) 26/27 (96%)                        |                    |
| Urothelial Papillomas (Bladder)                             |                    |
| Superficial Urothelial Cells (Normal Labelling) 10/51 (24%) |                    |
| Gastric Tumors 3/4 (75%)                                    |                    |

Performance Characteristics



IHC (Immunohistochemistry)  
IHC of Cytokeratin 20 on an FFPE Adenocarcinoma Tissue

| Step                     | ImmunoDetector AP/HRP | PolyDetector AP/HRP | PolyDetector Plus HRP |
|--------------------------|-----------------------|---------------------|-----------------------|
| Peroxidase/AP Blocker    | 5 min.                | 5 min.              | 5 min.                |
| Primary Antibody         | 30-60 min.            | 30-60 min.          | 30-60 min.            |
| 1st Step Detection       | 10 min.               | 30-45 min.          | 15 min.               |
| 2nd Step Detection       | 10 min.               | Not Applicable      | 15 min.               |
| Substrate-Chromogen      | 5-10 min.             | 5-10 min.           | 5-10 min.             |
| Counterstain / Coverslip | Varies                | Varies              | Varies                |

IHC (Immunohistochemistry)  
Abbreviated Immunohistochemical Protocol

| Antibody Type    | Dilution     | Volume/Qty |
|------------------|--------------|------------|
| Tinto Prediluted | Ready-to-Use | 3.0 mL     |
| Tinto Prediluted | Ready-to-Use | 7.0 mL     |
| Tinto Prediluted | Ready-to-Use | 15.0 mL    |
| Concentrated     | 1:50 - 1:200 | 0.1 mL     |
| Concentrated     | 1:50 - 1:200 | 0.5 mL     |
| Concentrated     | 1:50 - 1:200 | 1.0 mL     |

Dilution Info

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-KRT20 antibody</b> | Cytokeratin 20 (CK20) is a 46 kDa intermediate filament protein whose expression is restricted primarily to gastric and intestinal epithelium, urothelium, and Merkel cells. Cytokeratin 20 is a Type I cytokeratin. It is a major cellular protein of mature enterocytes and goblet cells found in the gastric and intestinal mucosa. CK 20 is expressed in Adenocarcinomas of the colon, stomach, pancreas and biliary system. It is also expressed in Mucinous Ovarian Tumors, Transitional-cell Carcinomas of the urinary tract, and Merkel-cell Carcinomas. Cytokeratin 20 is useful in the differentiation of specific types of simple epithelial cells of the urinary tract and normal and malignantly-transformed epithelia. This antibody is essentially non-reactive in Squamous Cell Carcinomas and Adenocarcinomas of the Breast, Lung, and Endometrium, Non-mucinous Tumors of the Ovary, and Small-cell Carcinomas. This antibody is often used in conjunction with CK7 and other antibodies to distinguish Colon Carcinomas (CK20+) from Ovarian, Pulmonary, and Breast Carcinomas. |
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NCBI AND UNIPROT INFORMATION

|                         |                                 |
|-------------------------|---------------------------------|
| NCBI GI #               | 402645                          |
| UniProt Accession #     | P35900; B2R6W7                  |
| NCBI Official Full Name | cytokeratin 20                  |
| UniProt Protein Name    | Keratin, type I cytoskeletal 20 |
| UniProt Gene Name       | KRT20                           |
| UniProt Entry Name      | K1C20_HUMAN                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.