

## Mouse anti-Human p16 Monoclonal Antibody | anti-p16 antibody

p16

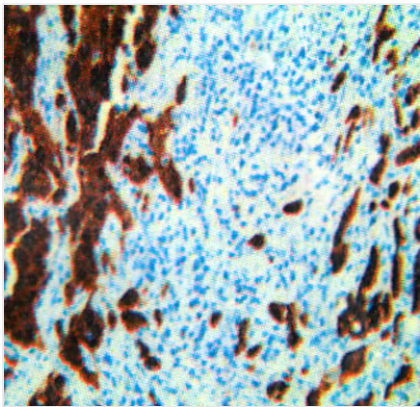
|                              |                      |                            |                                             |
|------------------------------|----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA59313</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|------------------------------|----------------------|----------------------------|---------------------------------------------|

### PRODUCT SYNONYMS

p16; Monoclonal Antibody; anti-p16 antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Isotype                                       | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clone Number                                  | 16P04, JC2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                   | Concentrate or Prediluted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Length                               | 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-p16 antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Immunogen                                     | Purified human recombinant full length p16 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Localization                                  | Cytoplasmic, Nuclear                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Control                                       | Testis, NSCLC, Transitional Cell Carcinoma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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 a laboratory coat, goggles, and gloves when handling reagents.</li> <li>3. Dispose of unused solution with copious amounts of water.</li> <li>4. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.</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 AMDL" (see References in this document).</li> </ol> |
| Presentation                                  | Anti-p16 is a Rabbit 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage                       | Store at 2-8°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



IHC (Immunohistochemistry)  
Inset: IHC of p16 on a FFPE Mucoepidermoid Carcinoma tissue

| Abbreviated Immunohistochemical Protocol |                       |                     |                       |
|------------------------------------------|-----------------------|---------------------|-----------------------|
| 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                |

| Automated Stainer [Detection] | Pretreatment [Time]    | Antibody Time |
|-------------------------------|------------------------|---------------|
| Ventana BenchMark [UltraView] | CC1 Standard [72 min.] | 48 min.       |
| Leica Bond [Refine]           | ER2 [30 min.]          | 15 min.       |

IHC (Immunohistochemistry)  
Abbreviated Immunohistochemical Protocol

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-p16 antibody | p16 is a tumor suppressor gene. p16 is an important gene in regulating the cell cycle. p16INK4a regulates the cell cycle by binding and deactivating various cyclin-CDK complexes. p16 is a G1/S-cell cycle regulator that is involved in the pathway that converges in the tumor suppressor protein Rb. |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 89355819                                                                                                                  |
| NCBI GeneID                      | 1029                                                                                                                      |
| NCBI Official Full Name          | p16, partial                                                                                                              |
| NCBI Official Synonym Full Names | cyclin dependent kinase inhibitor 2A                                                                                      |
| NCBI Official Symbol             | CDKN2A                                                                                                                    |
| NCBI Official Synonym Symbols    | ARF; MLM; P14; P16; P19; CMM2; INK4; MTS1; TP16; CDK4I; CDKN2; INK4A; MTS-1; P14ARF; P19ARF; P16INK4; P16INK4A; P16-INK4A |
| NCBI Protein Information         | cyclin-dependent kinase inhibitor 2A                                                                                      |
| UniProt Protein Name             | Cyclin-dependent kinase inhibitor 2A                                                                                      |
| UniProt Gene Name                | CDKN2A                                                                                                                    |
| UniProt Synonym Gene Names       | CDKN2; MTS1; CDK4I; MTS-1; p16-INK4; p16INK4A                                                                             |

**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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/p16-antibody-clone-16p04-jc2-immunohistochemistry-elisa/59313>