

## anti-Human Cytokeratin 17 Antibody | anti-KRT17 antibody

Anti-Cytokeratin 17 [4D2]

|                              |                            |                                                    |
|------------------------------|----------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA72379</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|------------------------------|----------------------------|----------------------------------------------------|

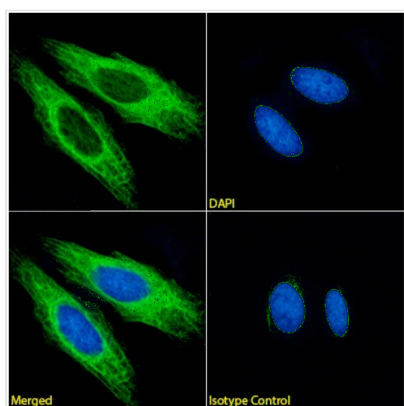
### PRODUCT SYNONYMS

Cytokeratin 17; Anti-Cytokeratin 17 [4D2]; CK17; CK-17; KRT17; K17; Keratin; type I cytoskeletal 17; Cytokeratin-17; Keratin-17; CGMCC NO 20762; E3; anti-KRT17 antibody

### PRODUCT SPECIFICATIONS

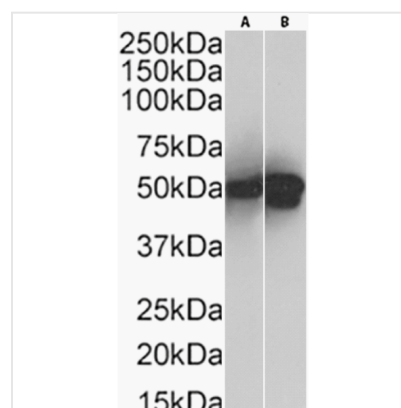
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|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                         | Rabbit IgG kappa                                                                                                                                                                                                                                                                                                                                                                    |
| Clone Number                                    | 4D2                                                                                                                                                                                                                                                                                                                                                                                 |
| Specificity                                     | This antibody is specific for amino acids 410-432 (TIVEEVQDGKVISSREQVHQTTTR) of human cytokeratin 17. Cytokeratins are intermediate filaments found in the intracytoplasmic cytoskeleton of epithelial tissue. Cytokeratin 17 regulates the activity of kinases such as PKC and SRC via binding to integrin beta-1 (ITB1) and the receptor of activated protein C kinase 1 (RACK1). |
| Purity/Purification                             | Purified. Protein A affinity purified                                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                     | PBS with 0.02% Proclin 300.                                                                                                                                                                                                                                                                                                                                                         |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-KRT17 antibody | IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                         | Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.                                                                                                                                                                                                                                                                                      |

### IMAGES



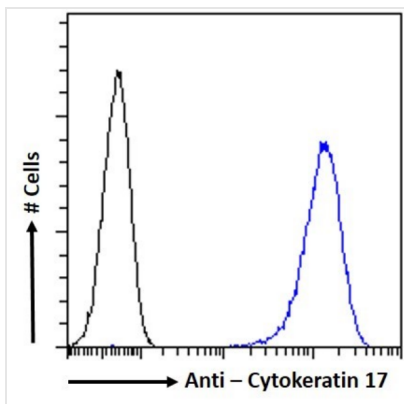
#### IF (Immunofluorescence)

Immunofluorescence staining of HeLa cells with anti-Cytokeratin 17 antibody 4D2 . Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton, on Shi-fix™ coverslips stained with the chimeric rabbit IgG version of 4D2 (AAA72379) (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom, AAA72379, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



#### WB (Western Blot)

Western blot using anti-Cytokeratin 17 antibody 4D2 . A431 (A) (0.001ug/ml) and HeLa (B) (0.0001ug/ml) cells lysate (35ug protein in RIPA buffer) were resolved on an SDS-PAGE gel, and blots were probed with the chimeric rabbit version of 4D2 (AAA72379) at the mentioned respective concentrations before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and protein was detected by chemiluminescence.



**FCM/FACS (Flow Cytometry)**  
 Flow cytometry using anti-Cytokeratin 17 antibody 4D2 . Paraformaldehyde fixed HeLa cells permeabilized with 0.5% Triton were stained with the anti-unknown specificity antibody (isotype control, black line) or the rabbit IgG version of 4D2 (AAA72379, blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000, and the cells were analyzed using a FACSCanto flow-cytometer.

### ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-KRT17 antibody | The original antibody was generated by immunizing female BALB/c mice with an immunogenic polypeptide containing amino acids 410-432 (TIVEEVQDGKVISSREQVHQTTR) of human cytokeratin 17 conjugated with KLH. This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2a format for improved compatibility with existing reagents assays and techniques. |
| Product Categories/Family for anti-KRT17 antibody   | muscle; microfilaments; keratin; cancer; oncology                                                                                                                                                                                                                                                                                                                                                 |

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4557701                                                                                                                                       |
| NCBI GeneID                      | 3872                                                                                                                                          |
| NCBI Accession #                 | NP_000413.1                                                                                                                                   |
| NCBI GenBank Nucleotide #        | NM_000422.2                                                                                                                                   |
| UniProt Accession #              | Q04695; Q6IP98; Q8N1P6; A5Z1M9; A5Z1N0; A5Z1N1; A5Z1N2; A6NDV6; A6NKQ2                                                                        |
| Molecular Weight                 | 48,106 Da                                                                                                                                     |
| NCBI Official Full Name          | keratin, type I cytoskeletal 17                                                                                                               |
| NCBI Official Synonym Full Names | keratin 17                                                                                                                                    |
| NCBI Official Symbol             | KRT17                                                                                                                                         |
| NCBI Official Synonym Symbols    | PC; K17; PC2; PCHC1                                                                                                                           |
| NCBI Protein Information         | keratin, type I cytoskeletal 17; 39.1; CK-17; keratin-17; cytokeratin-17; keratin 17 epitope S1; keratin 17 epitope S2; keratin 17 epitope S4 |
| UniProt Protein Name             | Keratin, type I cytoskeletal 17                                                                                                               |
| UniProt Gene Name                | KRT17                                                                                                                                         |
| UniProt Synonym Gene Names       | CK-17; K17                                                                                                                                    |
| UniProt Entry Name               | K1C17_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.

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Online datasheet: <https://stage.aaabiotech.com/human-antibody/cytokeratin-17/72379>