

# Anti-KRT18 / CK18 / Cytokeratin 18 Antibody (clone DC10)

Mouse Anti Human Monoclonal Antibody

Catalog # ALS17388

## Product Information

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|                       |                        |
|-----------------------|------------------------|
| Application           | WB, IHC-P              |
| Primary Accession     | <a href="#">P05783</a> |
| Predicted             | Human                  |
| Host                  | Mouse                  |
| Clonality             | Monoclonal             |
| Isotype               | IgG1,k                 |
| Clone Names           | DC10                   |
| Calculated MW         | 48058                  |
| Concentration (mg/ml) | 0.2 mg/ml              |

## Additional Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 3875                                                                                                                                       |
| Alias Symbol             | KRT18                                                                                                                                      |
| Other Names              | KRT18, CK-18, Cytokeratin 18, Cytokeratin-18, K18, Keratin 18, CYK18, Keratin-18                                                           |
| Target/Specificity       | Human KRT18 / CK18 / Cytokeratin 18                                                                                                        |
| Reconstitution & Storage | PBS, 0.05% sodium azide. Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.                          |
| Precautions              | Anti-KRT18 / CK18 / Cytokeratin 18 Antibody (clone DC10) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| Name     | KRT18 ( <a href="#">HGNC:6430</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Synonyms | CYK18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Function | Structural component of intermediate filaments in simple epithelial cells. Forms obligate heteropolymers with a type II keratin KRT8, mechanical stability and resilience to epithelial cells (PubMed: <a href="#">15529338</a> , PubMed: <a href="#">26823019</a> ). KRT8/KRT18 filaments are involved in ARHGEF40-mediated actin stress fiber formation and tensional force- induced stress fiber formation and reinforcement (PubMed: <a href="#">26823019</a> ). Organization and orientation of KRT8/KRT18 filaments are responsible for the properly elongated morphology of epithelial tubules (By similarity). Also acts downstream of ROCK kinase activation as part of a positive feedback |

mechanism in response to cellular mechanical stress loading (PubMed:[26823019](#)). Involved in the uptake of thrombin- antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization (PubMed:[7523419](#), PubMed:[8522591](#), PubMed:[9298992](#), PubMed:[9524113](#)). Involved in the delivery of mutated CFTR to the plasma membrane (PubMed:[15529338](#), PubMed:[16424149](#)). Involved in interleukin-6 (IL-6)- mediated barrier protection (PubMed:[17213200](#)).

**Cellular Location**

Nucleus matrix {ECO:0000250|UniProtKB:Q5BJY9}. Cytoplasm, perinuclear region. Nucleus, nucleolus. Cytoplasm {ECO:0000250|UniProtKB:Q5BJY9}

**Tissue Location**

Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.