

## Rabbit Keratin 18 Polyclonal Antibody | anti-K18 antibody

Phospho-Keratin 18 (Tyr13) Antibody

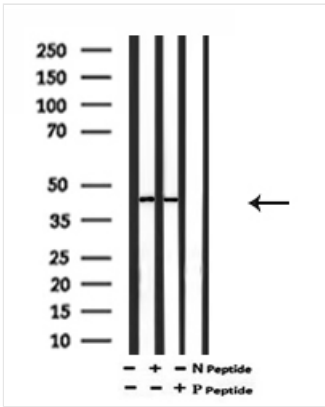
| CATALOG # | HOST   | REACTIVITY                                | APPLICATIONS                              |
|-----------|--------|-------------------------------------------|-------------------------------------------|
| AAA328360 | Rabbit | Human, Mouse, RatPredicted: Sheep, Rabbit | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

Keratin 18; Polyclonal Antibody; Phospho-Keratin 18 (Tyr13) Antibody; Cell proliferation inducing gene 46 protein; Cell proliferation inducing protein 46; Cell proliferation-inducing gene 46 protein; CK 18; CK-18; CK18; CYK 18; CYK18; Cytokeratin 18; Cytokeratin endo B; Cytokeratin-18; K 18; K1C18\_HUMAN; KA18; type I; Keratin D; keratin; type I cytoskeletal 18; Keratin-18; Krt18; anti-K18 antibody

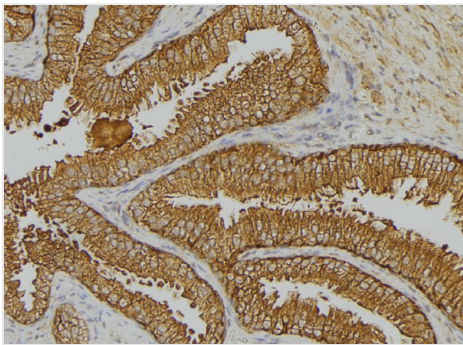
### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                     |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                              |
| Reactivity                                    | Human, Mouse, Rat<br>Predicted: Sheep, Rabbit                                                                                       |
| Clonality                                     | Polyclonal                                                                                                                          |
| Isotype                                       | IgG                                                                                                                                 |
| Specificity                                   | Phospho-Keratin 18 (Tyr13) Antibody detects endogenous levels of Keratin 18 only when phosphorylated at Tyr13.                      |
| Purity/Purification                           | Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.  |
| Form/Format                                   | Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                         |
| Concentration                                 | 1mg/ml (varies by lot)                                                                                                              |
| Sequence Length                               | 430                                                                                                                                 |
| Applicable Applications for anti-K18 antibody | ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)                                                                |
| Immunogen                                     | A synthesized peptide derived from human Keratin 18 around the phosphorylation site of Tyr13.                                       |
| Tissue Specificity                            | Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma. |
| Subcellular Location                          | Nucleus                                                                                                                             |
| Preparation and Storage                       | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                   |



WB (Western Blot)

Western blot analysis of Phospho-Keratin 18 (Tyr13) in lysates of HT29, using Phospho-Keratin 18 (Tyr13) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-K18 antibody</b> | <p>Description: Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.</p> <p>Post Translational Modifications: Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6. Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either caspase-3, caspase-6 or caspase-7. O-GlcNAcylation increases solubility, and decreases stability by inducing proteasomal degradation.</p> <p>Subunit Structure: Heterotetramer of two type I and two type II keratins. KRT18 associates with KRT8. Interacts with the thrombin-antithrombin complex (By similarity). Interacts with PNN, HCV core protein and mutated CFTR. Interacts with YWHAЕ, YWHAH and YWHAZ only when phosphorylated. Interacts with DNAJB6, TCHP and TRADD. Interacts with FAM83H (PubMed:23902688). Interacts with EPPK1 (By similarity).</p> <p>Similarity: Belongs to the intermediate filament family.</p> |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 4557888                               |
| NCBI GeneID                      | 3875                                  |
| NCBI Accession #                 | NP_000215.1                           |
| NCBI GenBank Nucleotide #        | NP_000215.1                           |
| UniProt Accession #              | P05783                                |
| Molecular Weight                 | Observed: 46 kDa<br>Predicted: 49 kDa |
| NCBI Official Full Name          | keratin, type I cytoskeletal 18       |
| NCBI Official Synonym Full Names | keratin 18                            |
| NCBI Official Symbol             | KRT18                                 |
| NCBI Official Synonym Symbols    | K18; CK-18; CYK18                     |
| NCBI Protein Information         | keratin, type I cytoskeletal 18       |
| UniProt Protein Name             | Keratin, type I cytoskeletal 18       |

|                            |                   |
|----------------------------|-------------------|
| UniProt Gene Name          | KRT18             |
| UniProt Synonym Gene Names | CYK18; CK-18; K18 |
| UniProt Entry Name         | K1C18_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/keratin-18-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328360>