

# Cytokeratin 18 Antibody

Purified Rabbit Polyclonal Antibody (Pab)  
Catalog # AP51309

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P05783</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	48058

## Additional Information

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<b>Gene ID</b>	3875
<b>Other Names</b>	Keratin, type I cytoskeletal 18, Cell proliferation-inducing gene 46 protein, Cytokeratin-18, CK-18, Keratin-18, K18, KRT18, CYK18
<b>Target/Specificity</b>	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Cytokeratin 18. The exact sequence is proprietary.
<b>Dilution</b>	WB~~ 1:4000
<b>Format</b>	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
<b>Storage</b>	Store at -20 °C. Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	KRT18 ( <a href="#">HGNC:6430</a> )
<b>Synonyms</b>	CYK18
<b>Function</b>	Required for the formation of KRT8/KRT18 filaments that are involved in ARHGEF40-mediated actin stress fiber formation and tensional force-induced stress fiber formation and reinforcement (PubMed: <a href="#">26823019</a> ). Also acts downstream of ROCK kinase activation as part of a positive feedback mechanism in response to cellular mechanical stress loading (PubMed: <a href="#">26823019</a> ). Organization and orientation of KRT18 filaments are responsible for the properly elongated morphology of epithelial tubules (By similarity). 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.

**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.

## Background

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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.

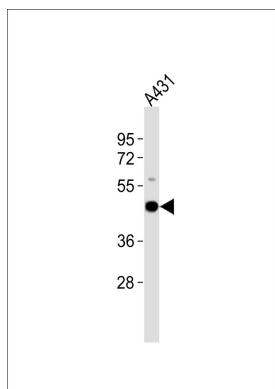
## References

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Oshima R.G.,et al.Differentiation 33:61-68(1986).  
Kim J.W.,et al.Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases.  
Kalinine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.  
Suzuki Y.,et al.Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.  
Kulesh D.A.,et al.Mol. Cell. Biol. 8:1540-1550(1988).

## Images

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Anti-Cytokeratin 18 Antibody at 1:4000 dilution + A431 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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