

# CYK18 Antibody (C-term)

Mouse Monoclonal Antibody (Mab)

Catalog # AW5679

## Product Information

---

<b>Application</b>	IF, WB
<b>Primary Accession</b>	<a href="#">P05783</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Calculated MW</b>	48058
<b>Isotype</b>	IgG3
<b>Antigen Source</b>	HUMAN

## Additional Information

---

<b>Gene ID</b>	3875
<b>Antigen Region</b>	400-430
<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>Dilution</b>	IF~~1:25 WB~~1:2000
<b>Target/Specificity</b>	This CYK18 Monoclonal antibody is generated from mouses immunized with a KLH conjugated synthetic peptide selected from the 400-430 region of human CYK18.
<b>Format</b>	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	CYK18 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<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:[26823019](#)). Also acts downstream of ROCK kinase activation as part of a positive feedback mechanism in response to cellular mechanical stress loading (PubMed:[26823019](#)). 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.

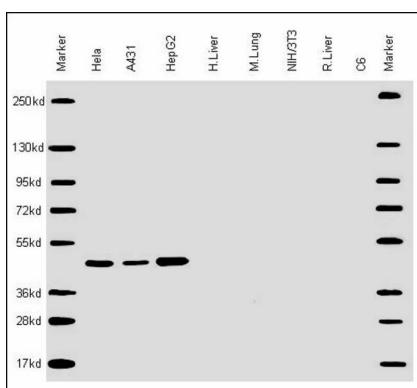
## Background

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

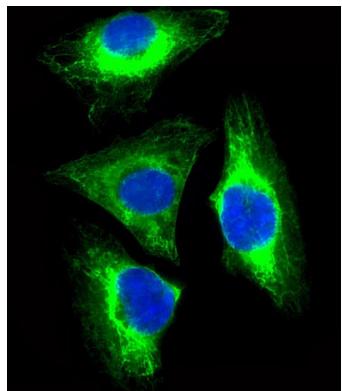
Oshima R.G., et al. Differentiation 33:61-68(1986).  
 Kim J.W., et al. Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases.  
 Kalnine N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.  
 Suzuki Y., et al. Submitted (APR-2005) to the EMBL/GenBank/DDBJ databases.  
 Kulesh D.A.,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

## Images



All lanes : Anti-CYK18 Antibody (C-term) at 1:2000 dilution  
 Lane 1: Hela whole cell lysate Lane 2: A431 whole cell lysate Lane 3: HepG2 whole cell lysate Lane 4: human liver lysate Lane 5: mouse lung lysate Lane 6: NIH/3T3 whole cell lysate Lane 7: Rat liver lysate Lane 8: C6 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa  
 Blocking/Dilution buffer: 5% NFDM/TBST.

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling Pdx1 with AW5679 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-mouse IgG (NA166821) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoskeleton staining on HeLa cell line. The nuclear counter stain is



DAPI (blue).

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