

# CYK18 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7376b

## Product Information

---

<b>Application</b>	WB, FC, IF, IHC-P, E
<b>Primary Accession</b>	<a href="#">P05783</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB18746
<b>Calculated MW</b>	48058
<b>Antigen Region</b>	401-430

## Additional Information

---

<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>	This CYK18 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 401-430 amino acids from the C-terminal region of human CYK18.
<b>Dilution</b>	WB~~1:2000 FC~~1:25 IF~~1:10~50 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation 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

ARRHGEF40-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.

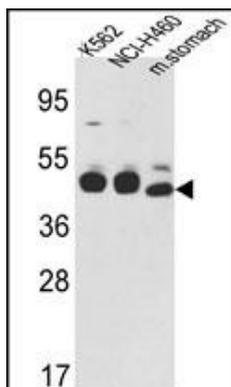
## Background

KRT18 is the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members of the intermediate filament family. They are expressed in single layer epithelial tissues of the body. Mutations in its gene have been linked to cryptogenic cirrhosis.

## References

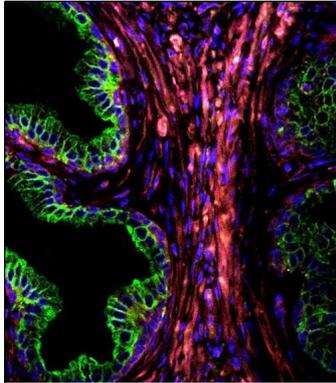
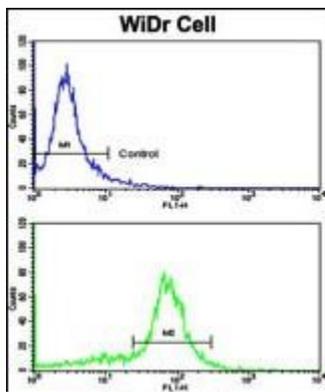
- Zhang,Q., Clin. Cancer Res. 15 (10), 3557-3567 (2009)  
Kruse,R., Folia Histochem. Cytobiol. 47 (1), 127-130 (2009)  
Toivola,D.M., Hepatology 40 (2), 459-466 (2004)

## Images

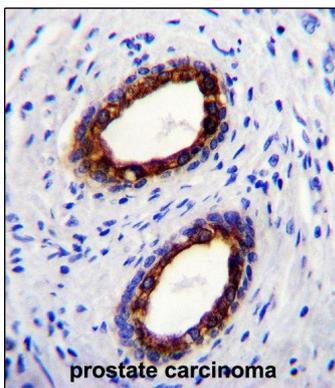


Western blot analysis of CYK18 Antibody (C-term)(Cat. #AP7376b) in K562,NCI-H460 cell line lysates and mouse stomach tissues lysates(35ug/lane). CYK18(arrow) was detected using the purified Pab.

Flow cytometric analysis of WiDr cells using CYK18 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Confocal immunofluorescent analysis of CYK18 Antibody (C-term) (Cat#AP7376b) with prostate carcinoma followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



CYK18 Antibody (C-term) (Cat. #AP7376b) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CYK18 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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