10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CYK18 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7376b

Specification

CYK18 Antibody (C-term) - Product Information

Application	**IF, WB, IHC-P, FC,E**
Primary Accession	P05783
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**401-430**

CYK18 Antibody (C-term) - Additional Information

Gene ID 3875

Other Names
Keratin, type I cytoskeletal 18, Cell proliferation-inducing gene 46 protein, Cytokeratin-18, CK-18, Keratin-18, K18, KRT18, CYK18

Target/Specificity
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.

Dilution
IF~~1:25
WB~~1:1000
IHC-P~~1:10~50
FC~~1:25

Format
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.

Storage
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.

Precautions
CYK18 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CYK18 Antibody (C-term) - Protein Information

Name KRT18

Synonyms CYK18

Function 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}

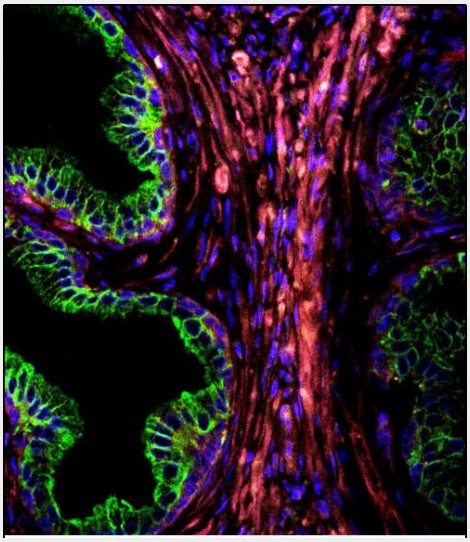
Tissue Location
Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.

CYK18 Antibody (C-term) - Protocols

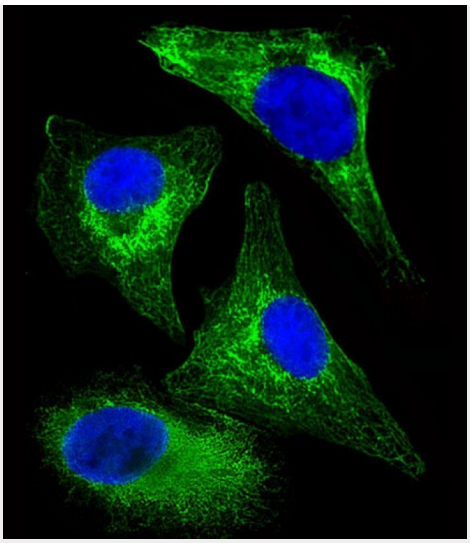
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

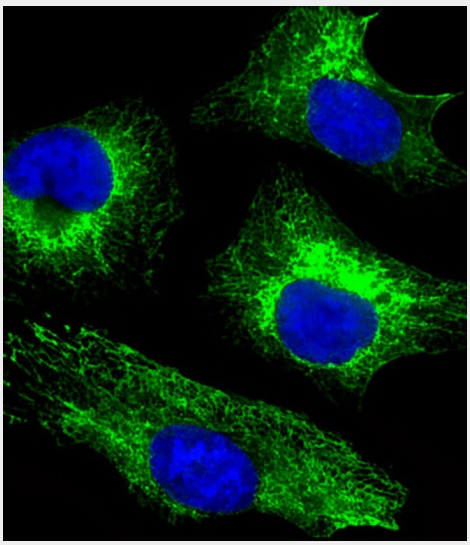
CYK18 Antibody (C-term) - Images



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

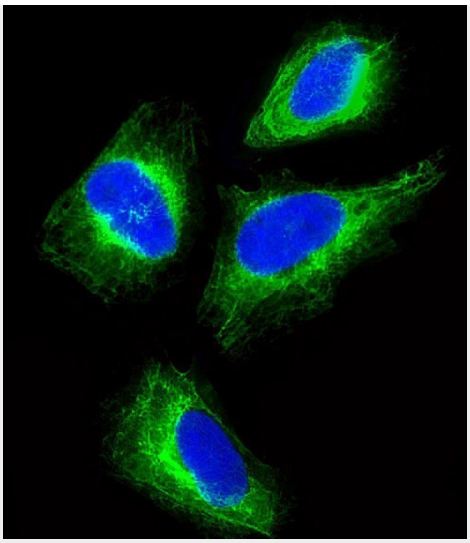


Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling CYK18 with AP7376b at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (NK179883) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoskeleton staining on HeLa cell line. The nuclear counter stain is DAPI (blue).

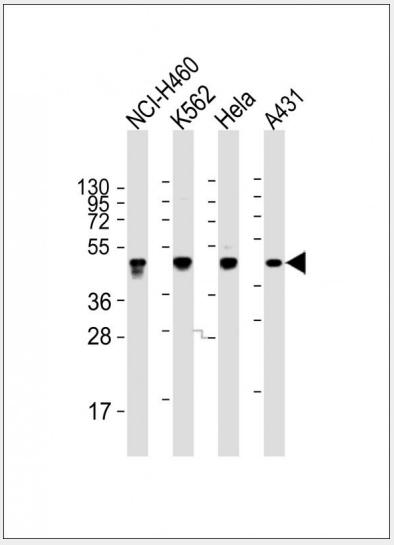


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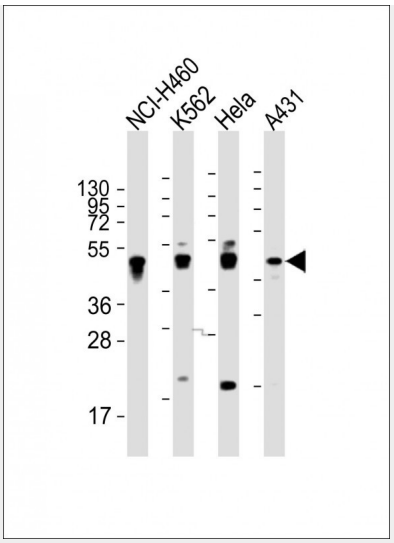


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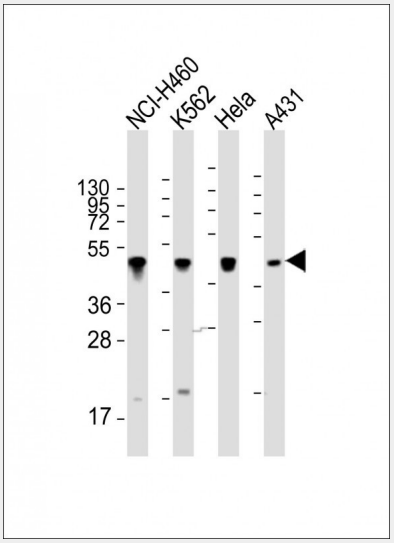


All lanes : Anti-CYK18 Antibody (C-term) at 1:2000 dilution Lane 1: NCI-H460 whole cell lysate Lane 2: K562 whole cell lysate Lane 3: Hela whole cell lysate Lane 4: A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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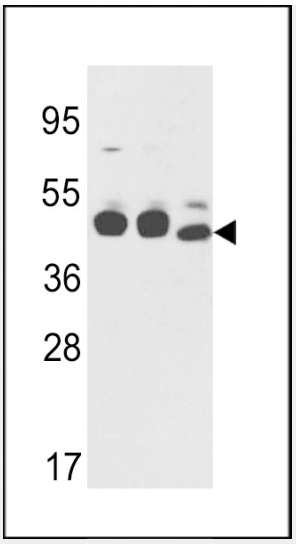


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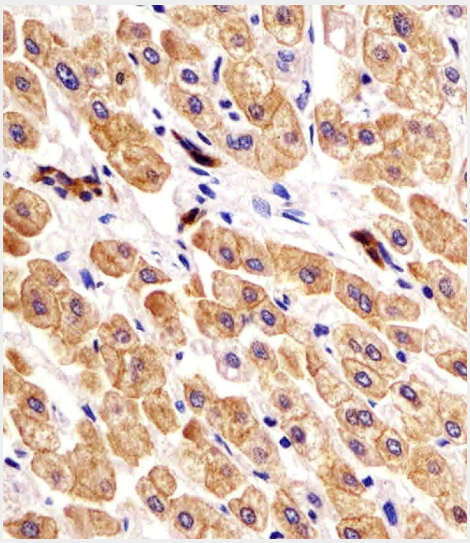


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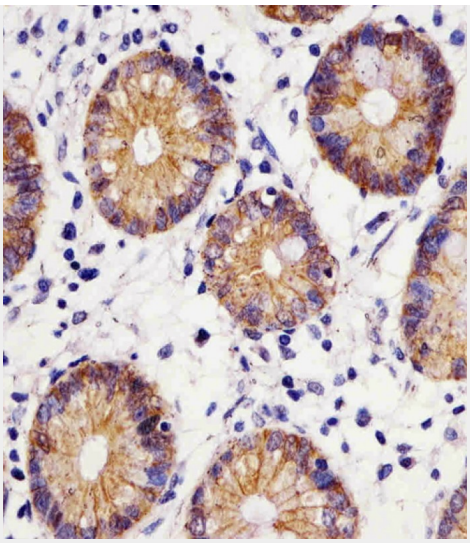


Western blot analysis of CYK18 Antibody (C-term)(Cat. #AP7376b) in K562,NCI-H460 cell line lysates and mouse stomach tissues lysates(35ug/lane). CYK18(arrow) was detected using the purified Pab.

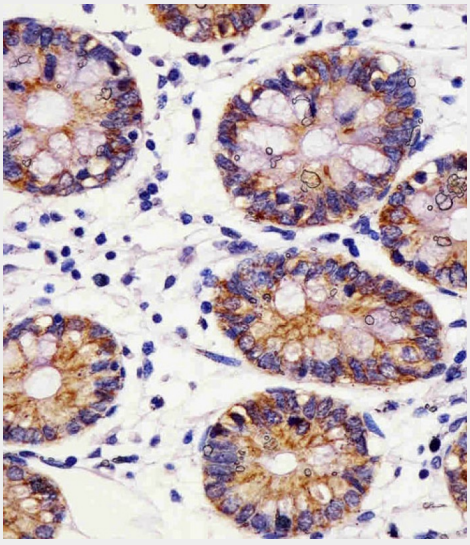


AP7376b staining CYK18 in human liver tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

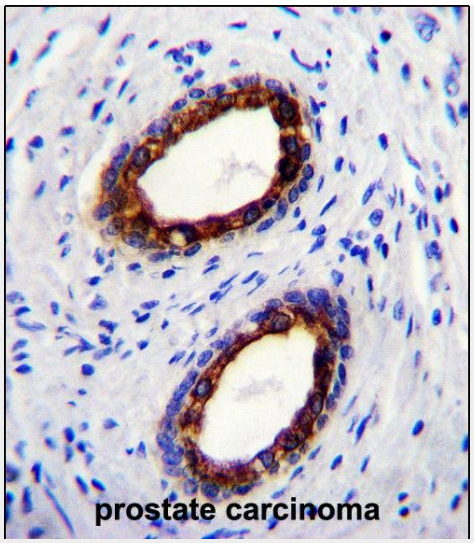
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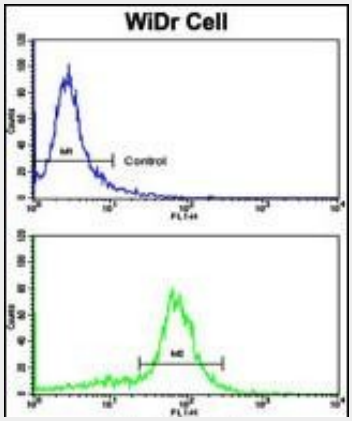
AP7376b staining CYK18 in human colon tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



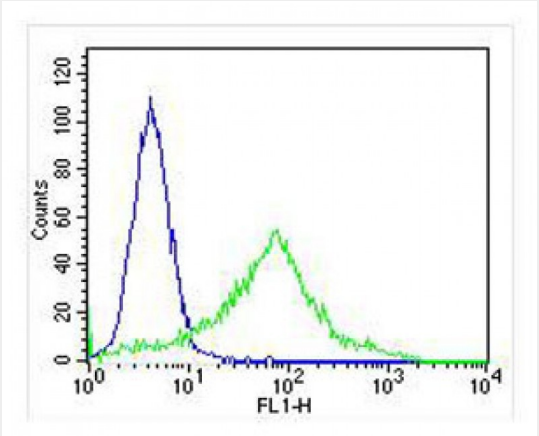
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CYK18 Antibody (C-term) (Cat. #AP7376b)immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CYK18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

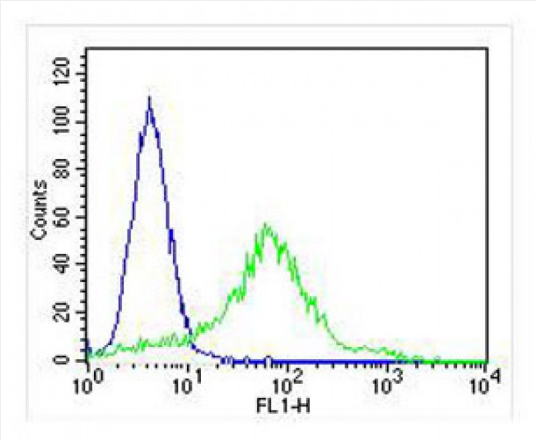


Flow cytometric analysis of WiDr cells using CYK18 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

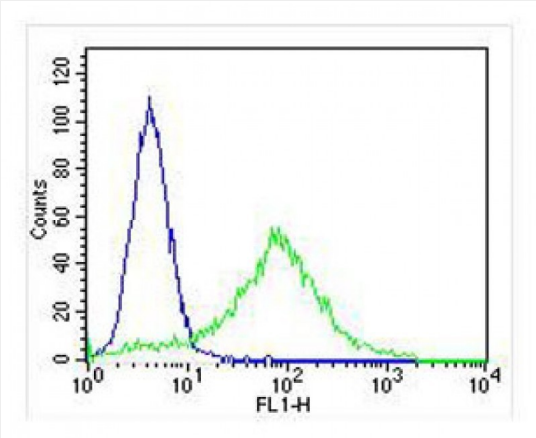


Overlay histogram showing Hela cells stained with AP7376b (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions

followed by the antibody (AP7376b, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



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CYK18 Antibody (C-term) - 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.

CYK18 Antibody (C-term) - 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)