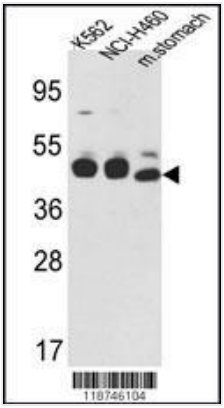
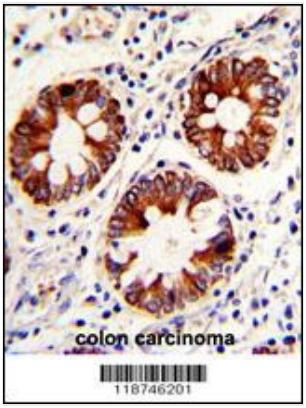
KRT18 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

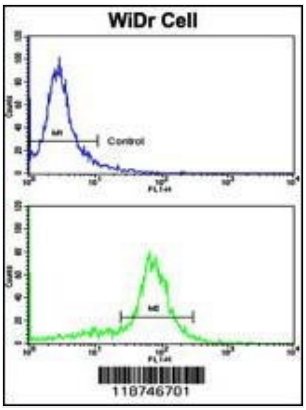
Product Name	KRT18, Polyclonal Antibody
Full Product Name	KRT18, CT (Keratin, Type I Cytoskeletal 18, Cytokeratin-18, CK-18, Keratin-18, K18, Cell Proliferation-inducing Gene 46 Protein, PIG46, CYK18) (Biotin)
Product Gene Name	anti-KRT18 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CYK18. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	48,058 Da
OMIM	148070
3D Structure	ModBase 3D Structure for P05783
Immunogen	Synthetic peptide selected from the C-terminal region of human CYK18 (KLH).
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-KRT18 antibody	Antibodies; Keratin; Cytokeratin
Applications Tested/Suitable for anti-KRT18 antibody	ELISA (EIA), Western Blot (WB), Flow Cytometry (FC/FACS), Immunohistochemistry (IHC)
Application Notes for anti-KRT18 antibody	ELISA: 1:1,000 WB: 1:50-1:100 FC/FACS: 1:10-1:50 IHC: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-KRT18 antibody	MBS6484241 is an antibody targeting KRT18. Also known as KRT18, CT (Keratin, Type I Cytoskeletal 18, Cytokeratin-18, CK-18, Keratin-18, K18, Cell Proliferation-inducing Gene 46 Protein, PIG46, CYK18) (Biotin). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-KRT18 antibody	1. Zhang, Q., Clin. Cancer Res. 15(10), 3557-3567 (2009). 2. Kruse, R., Folia Histochem. Cytobiol. 47(1), 127-130 (2009). 3. Toivola, D.M., Hepatology 40(2), 459-466 (2004).
Other Notes	Small volumes of anti-KRT18 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



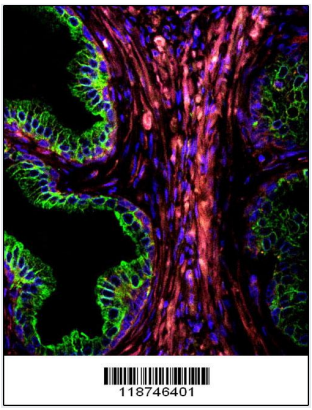
Western Blot (WB) of anti-KRT18 antibody
Western blot analysis of CYK18 Antibody (C-term) in K562,NCI-H460 cell line lysates and mouse stomach tissues lysates(35ug/lane). CYK18(arrow) was detected using the purified Pab.



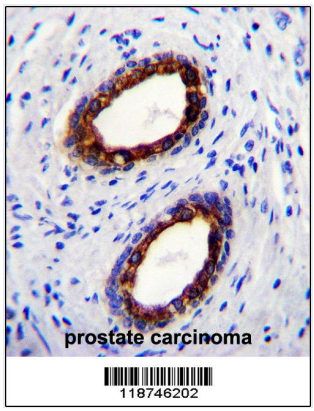
Immunohistochemistry (IHC) of anti-KRT18 antibody
Formalin-fixed and paraffin-embedded human colon carcinoma with CYK18 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-KRT18 antibody
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.



Immunofluorescence (IF) of anti-KRT18 antibody
Confocal immunofluorescent analysis of CYK18 Antibody (C-term) with prostate carcinoma followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Immunohistochemistry (IHC) of anti-KRT18 antibody
CYK18 Antibody (C-term) 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KRT18. It may not necessarily be applicable to this product.

NCBI GI #	4557888
NCBI GeneID	3875

NCBI Accession #	NP_000215
UniProt Primary Accession #	P05783
UniProt Secondary Accession #	Q53G38; Q5U0N8; Q9BW26
UniProt Related Accession #	P05783
GenBank Nucleotide #	NM_000224.2
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
UniProt Protein Name	Keratin, type I cytoskeletal 18
UniProt Synonym Protein Names	Cell proliferation-inducing gene 46 protein; Cytokeratin-18; CK-18; Keratin-18
Protein Family	Keratin
UniProt Gene Name	KRT18
UniProt Synonym Gene Names	CYK18; CK-18; K18
UniProt Entry Name	K1C18_HUMAN
NCBI Protein Information	keratin, type I cytoskeletal 18
NCBI Summary for KRT18	KRT18 encodes 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 gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for KRT18	K18: a type I cytoskeletal keratin. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Keratin 18 and its filament partner keratin 8 are perhaps the most commonly found members of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Defects are a cause of cryptogenic cirrhosis. Protein type: Cytoskeletal; Nucleolus Chromosomal Location of Human Ortholog: 12q13 Cellular Component: perinuclear region of cytoplasm; keratin filament; cytoplasm; nucleolus; microtubule organizing center; intermediate filament Molecular Function: protein binding; structural molecule activity Biological Process: anatomical structure morphogenesis; tumor necrosis factor-mediated signaling pathway; viral reproduction; intermediate filament cytoskeleton organization and biogenesis; cell cycle; Golgi to plasma membrane CFTR protein transport; negative regulation of apoptosis Disease: Cirrhosis, Familial
Research Articles on KRT18	**1.** FIB-4 index and CK-18F have good diagnostic abilities not only for nonalcoholic steatohepatitis (NASH) overall, but also for NASH with mild fibrosis.
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