

Cytokeratin 18 Polyclonal antibody

Catalog Number: 10830-1-AP

97 Publications

Basic Information

Catalog Number:

10830-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1260

GenBank Accession Number:

BC000180

GeneID (NCBI):

3875

UNIPROT ID:

P05783

Full Name:

keratin 18

Calculated MW:

48 kDa

Observed MW:

48 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:200-1:1000

IF 1:50-1:500

Applications

Tested Applications:

FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

FC, IF, IHC, WB

Species Specificity:

human, mouse

Cited Species:

human, rat, sheep, mouse, pig, duck, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, A431 cells, K-562 cells

IP : A431 cells,

IHC : human breast cancer tissue, human lung cancer tissue, human liver cancer tissue, human kidney tissue, human pancreas cancer tissue, human prostate cancer tissue, human ovary tumor tissue, human stomach cancer tissue, human endometrial cancer tissue, human renal cell carcinoma tissue, human colon cancer tissue

IF : HepG2 cells, HeLa cells, mouse olfactory epithelium tissue

Background Information

Keratins are a large family of proteins that form the intermediate filament cytoskeleton of epithelial cells, which are classified into two major sequence types. Type I keratins are a group of acidic intermediate filament proteins, including K9-K23, and the hair keratins Ha1-Ha8. Type II keratins are the basic or neutral counterparts to the acidic type I keratins, including K1-K8, and the hair keratins, Hb1-Hb6. KRT18, also named as CYK18, PIG46 and K18, is the most commonly found members of the intermediate filament gene family. KRT18 is a type I keratin which is found primarily in non squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas but not in squamous cell carcinomas.

Notable Publications

Author	Pubmed ID	Journal	Application
Ahmed Ghallab	34685496	Cells	IHC
Linlin Zhang	32954430	J Anim Sci	IF
Wenbin Xu	33061289	Drug Des Devel Ther	IF

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

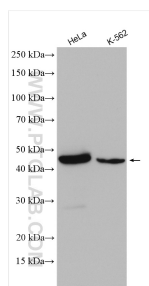
For technical support and original validation data for this product please contact:

T: 4006900926

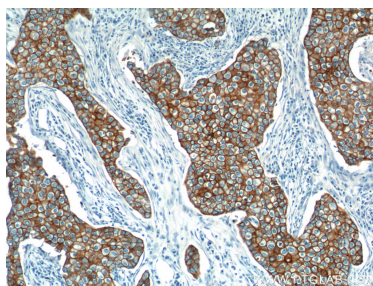
E: Proteintech-CN@ptglab.comW: ptgcn.com

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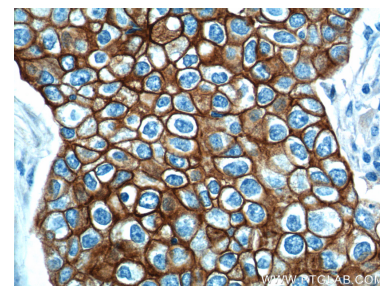
Selected Validation Data



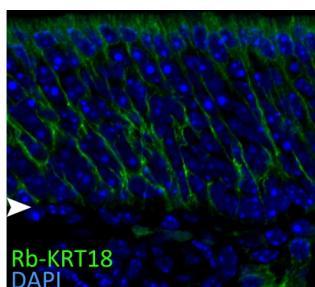
Various lysates were subjected to SDS PAGE followed by western blot with 10830-1-AP (Cytokeratin 18 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



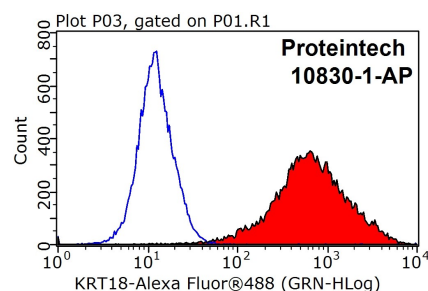
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10830-1-AP (Cytokeratin 18 antibody at dilution of 1:1000 (under 10x lens).



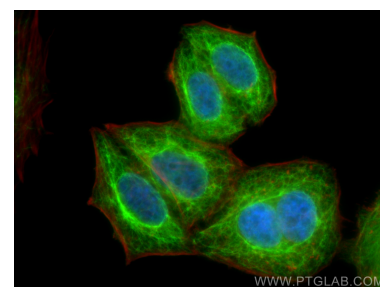
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10830-1-AP (Cytokeratin 18 antibody at dilution of 1:1000 (under 40x lens).



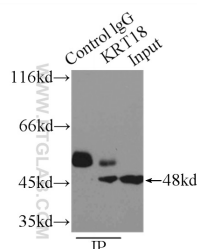
IF result of CK18 antibody (10830-1-AP, 1:50) with 1% PLP fixed the apical sustentacular cells of adult mouse olfactory epithelium. (Green: CK18; Blue: DAPI). Basal lamina is marked by an arrow head. By Brian Lin, Tufts University.



1X10⁶ MCF-7 cells were stained with 0.2ug Cytokeratin 18 antibody (10830-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Cytokeratin 18 antibody (10830-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



IP result of anti-Cytokeratin 18 (IP:10830-1-AP, 3ug; Detection:10830-1-AP 1:2000) with A431 cells lysate 3300ug.