For Research Use Only

Cytokeratin 13 Polyclonal antibody

Catalog Number:10164-2-AP 13 Publications

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Basic Information

Catalog Number:
10164-2-AP

Size:
150ul , Concentration: 550 µg/ml by Nanodrop and 307 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0217

GenBank Accession Number:
BC002661

GeneID (NCBI):
3860

UNIPROT ID:
P13646

Full Name:
keratin 13

Calculated MW:
50 kDa

Observed MW:
50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:10000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:50-1:500

Applications

Tested Applications:
FC, IF, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

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 : A431 cells, mouse skin tissue

IP : A431 cells,

IHC : human cervical cancer tissue, human oesophagus tissue

IF : HaCaT cells, A431 cells

Background Information

Keratin 13 is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Most of the type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. This type I cytokeratin is paired with keratin 4 and expressed in the suprabasal layers of non-cornified stratified epithelia. Mutations in keratin 13 gene and keratin 4 have been associated with the autosomal dominant disorder White Sponge Nevus. The type I cytokeratins are clustered in a region of chromosome 17q21.2.

Notable Publications

Author	Pubmed ID	Journal	Application
Cong Li	31885626	Stem Cells Int	IF
Jaworski C J CJ	19956562	Mol Vis	IHC
Henna Pehkonen	30005669	Cell Commun Signal	WB

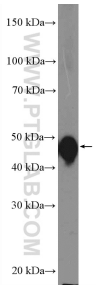
Storage

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

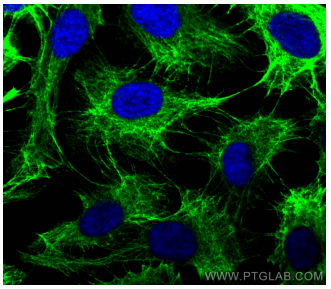
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

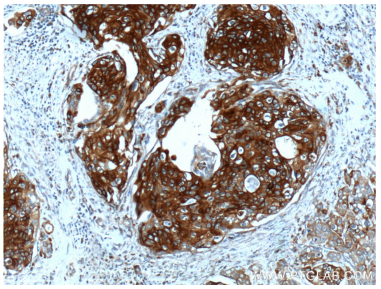
Selected Validation Data



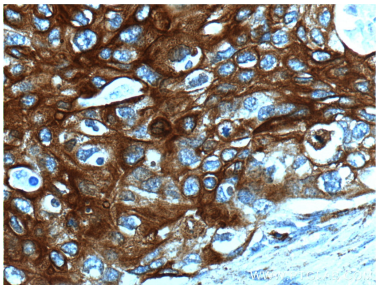
A431 cells were subjected to SDS PAGE followed by western blot with 10164-2-AP (Cytokeratin 13 antibody at dilution of 1:10000 incubated at room temperature for 1.5 hours.



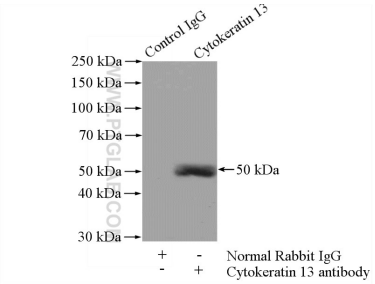
Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using Cytokeratin 13 antibody (10164-2-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



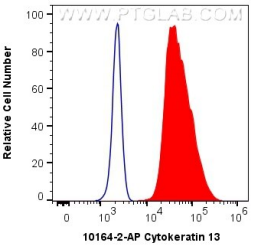
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10164-2-AP (Cytokeratin 13 antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 10164-2-AP (Cytokeratin 13 antibody at dilution of 1:200 (under 40x lens).



IP result of anti-Cytokeratin 13 (IP:10164-2-AP, 4ug; Detection:10164-2-AP 1:1000) with A431 cells lysate 2400ug.



1X10^6 A431 cells were intracellularly stained with 0.4 ug Anti-Human Cytokeratin 13 (10164-2-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).