

For Research Use Only

Cytokeratin 4 Polyclonal antibody

Catalog Number: 16572-1-AP **7 Publications**



Basic Information

Catalog Number: 16572-1-AP	GenBank Accession Number: BC042174	Purification Method: Antigen affinity purification
Size: 450 µg/ml	GeneID (NCBI): 3851	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF 1:200-1:800
Source: Rabbit	UNIPROT ID: P19013	
Isotype: IgG	Full Name: keratin 4	
Immunogen Catalog Number: AG9854	Calculated MW: 534 aa, 57 kDa Observed MW: 57 kDa	

Applications

Tested Applications: FC, IF/ICC, IF-P, IHC, WB, ELISA	Positive Controls: WB : A431 cells, human bladder tissue IHC : human cervical cancer tissue, IF : A431 cells, mouse skin tissue
Cited Applications: WB, IF, IHC	
Species Specificity: human	
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	

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. Keratin 4 is a type II cytokeatins. It is specifically found in differentiated layers of the mucosal and esophageal epithelia together with keratin 13.

Notable Publications

Author	Pubmed ID	Journal	Application
Sandra Ruiz García	31558434	Development	IF
Ziv Schwartz	31473371	Ann Diagn Pathol	IHC
Lindsey W Plasschaert	30069046	Nature	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:

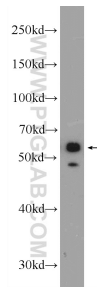
T: 4006900926

E: Proteintech-CN@ptglab.com

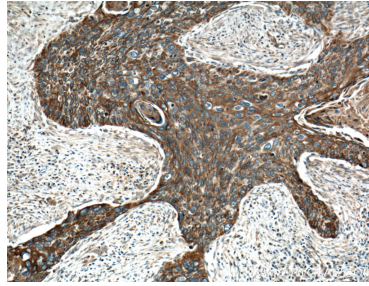
W: ptgcn.com

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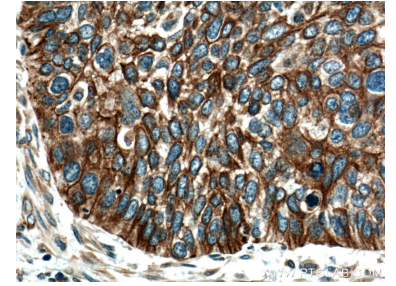
Selected Validation Data



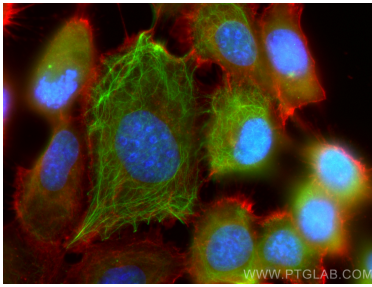
A431 cells were subjected to SDS PAGE followed by western blot with 16572-1-AP (Cytokeratin 4 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



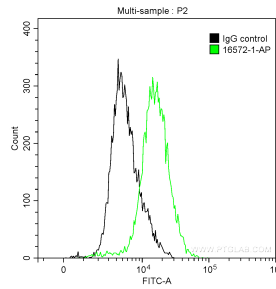
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16572-1-AP (Cytokeratin 4 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16572-1-AP (Cytokeratin 4 antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using Cytokeratin 4 antibody (16572-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite@594 Beta Actin antibody (CL594-66009, Clone: 2D4H5, red).



1x10⁶ HeLa cells were stained with 0.2 ug Anti-Human Cytokeratin 4 (16572-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.