For Research Use Only

# Cytokeratin 16 Monoclonal antibody

Catalog Number:66802-1-Ig Featured Product 3 Publications

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Antibodies | ELISA kits | Proteins
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## Basic Information

Catalog Number:
66802-1-Ig

Size:
1200 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG11240

GenBank Accession Number:
BC039169

GeneID (NCBI):
3868

UNIPROT ID:
P08779

Full Name:
keratin 16

Calculated MW:
473 aa, 51 kDa

Observed MW:
51 kDa

Purification Method:
Protein A purification

CloneNo.:
2H4D8

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:2000-1:8000
IF/ICC 1:200-1:800

## Applications

Tested Applications:
WB, IF/ICC, IHC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
Human

Cited Species:
human

***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, human milk, A549 cells

IHC : human tonsillitis tissue, human cervical cancer tissue, human skin cancer tissue

IF/ICC : A431 cells,

## 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 courterparts to the acidic type I keratins, including K1-K8, and the hair keratins, Hb1-Hb6. Keratin 16 is a type I cytokeratin. It is paired with keratin 6 in a number of epithelial tissues, including nail bed, esophagus, tongue, and hair follicles.

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Maha Elazezy | 34359774 | Cancers (Basel) | WB,IHC,IF |
| Ming-Yue Li | 38901654 | Genomics | WB,IHC |
| Xuejiao Liu | 37553345 | Nat Commun | WB,IHC |

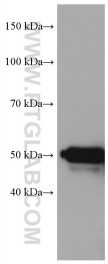
## Storage

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

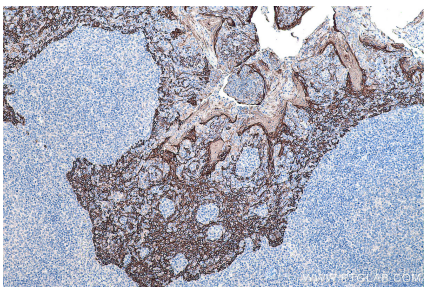


**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

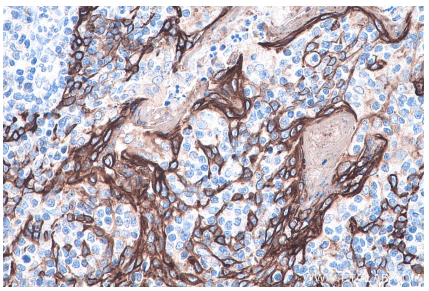
## Selected Validation Data



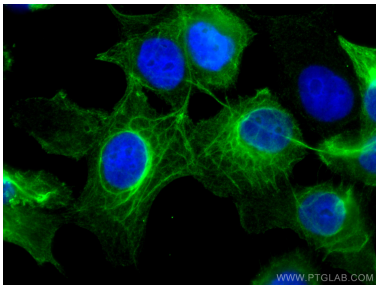

A431 cells were subjected to SDS PAGE followed by western blot with 66802-1-Ig (Cytokeratin 16 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66802-1-Ig (Cytokeratin 16 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66802-1-Ig (Cytokeratin 16 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).




Immunofluorescent analysis of (-20°C Ethanol) fixed A431 cells using Cytokeratin 16 antibody (66802-1-Ig, Clone: 2H4D8 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).