For Research Use Only

Cytokeratin 14 Monoclonal antibody

Catalog Number:60320-1-Ig Featured Product 23 Publications

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Basic Information

Catalog Number:
60320-1-Ig

Size:
150ul , Concentration: 1390 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG17559

GenBank Accession Number:
BC002690

GeneID (NCBI):
3861

UNIPROT ID:
P02533

Full Name:
keratin 14

Calculated MW:
472 aa, 52 kDa

Observed MW:
52 kDa

Purification Method:
Protein G purification

CloneNo.:
2G1E2

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:400-1:800
IF-P: 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat, pig

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

IHC : human lung cancer tissue, human cervical cancer tissue, human skin tissue, human breast hyperplasia tissue, human skin cancer tissue, rat skin tissue

IF-P : mouse skin 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 courterparts to the acidic type I keratins, including K1-K8, and the hair keratins, Hb1-Hb6. Keratin 14 is a type I cytokeratin. It is usually found as a heterotetramer with keratin 5. Keratins K14 and K5 have long been considered to be biochemical markers of the stratified squamous epithelia, including epidermis.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhongwei Xin	36115836	Nat Commun	IF
Jiajun Xie	34482361	Signal Transduct Target Ther	WB,IHC
Jiali Li	36388171	Oxid Med Cell Longev	IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
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
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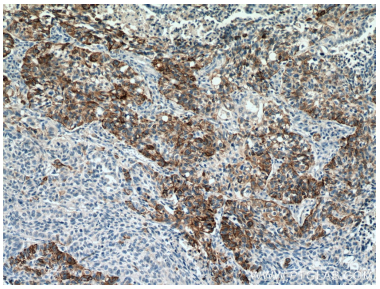
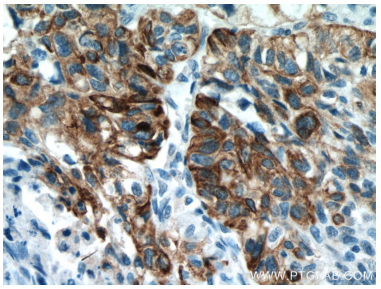
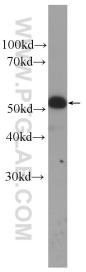
Selected Validation Data



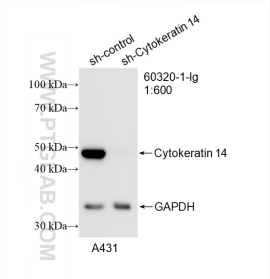
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60320-1-Ig (Cytokeratin 14 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



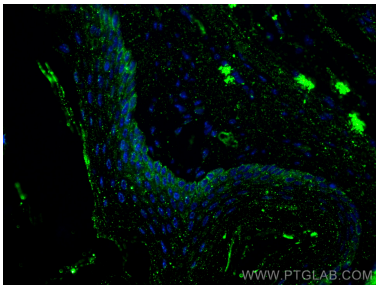
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 60320-1-Ig (Cytokeratin 14 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



A431 cells were subjected to SDS PAGE followed by western blot with 60320-1-Ig (Cytokeratin 14 antibody at dilution of 1:500 incubated at room temperature for 1.5 hours.



WB result of Cytokeratin 14 antibody (60320-1-Ig; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytokeratin 14 transfected A431 cells.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skin tissue using Cytokeratin 14 antibody (60320-1-Ig, Clone: 2G1E2) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).