For Research Use Only

Cytokeratin 7 Monoclonal antibody

Catalog Number:66483-1-Ig Featured Product 11 Publications

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Basic Information

Catalog Number:
66483-1-Ig

Size:
150ul , Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG7895

GenBank Accession Number:
BC002700

GeneID (NCBI):
3855

UNIPROT ID:
P08729

Full Name:
keratin 7

Calculated MW:
469 aa, 51 kDa

Observed MW:
51 kDa

Purification Method:
Protein A purification

CloneNo.:
2E1G5

Recommended Dilutions:
WB: 1:10000-1:40000
IHC: 1:500-1:2000
IF-P: 1:200-1:800

Applications

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

Cited Applications:
WB, IHC, IF

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

Positive Controls:

WB : A549 cells, A431 cells, T-47D cells, PC-3 cells, HeLa cells, HepG2 cells, BxPC-3 cells

IHC : human lung cancer tissue, human ovary tumor tissue, human kidney tissue, human pancreas tissue, human breast cancer tissue

IF-P : human prostate cancer 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. KRT7, also named as cytokeratin 7, is one member of type II basic cytokeratin. It is specifically expressed in the simple epithelia lining the cavities of the internal organs and in the gland ducts and blood vessels, and their neoplasms. KRT7 is marker of epithelial tissues, but not present in carcinomas of stratified squamous cell origin.This antibody is specifically against KRT7.

Notable Publications

Author	Pubmed ID	Journal	Application
Yan Fang	35643225	Gene	IF
Xin Chen	35602106	Oxid Med Cell Longev	IHC,IF
Yanling Gou	30838396	Hum Reprod	IF

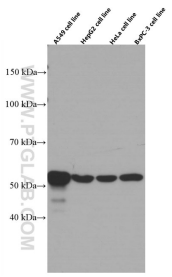
Storage

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

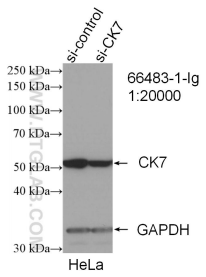
*** 20ul sizes contain 0.1% BSA

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
W: ptglab.com

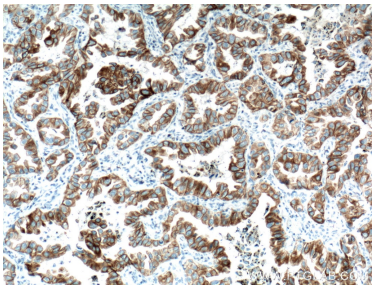
Selected Validation Data



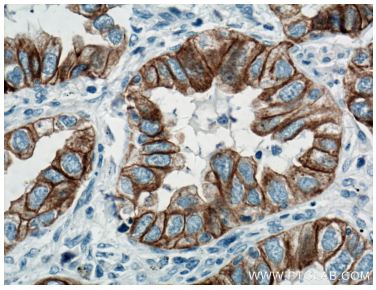
Various lysates were subjected to SDS PAGE followed by western blot with 66483-1-Ig (CK7 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



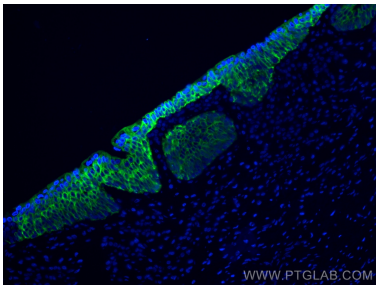
WB result of CK7 antibody (66483-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CK7 transfected HeLa cells.



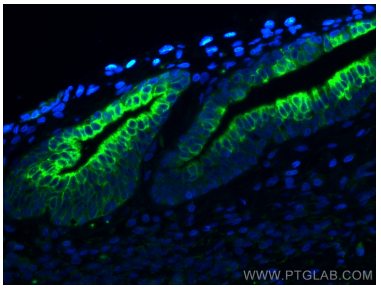
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66483-1-Ig (CK7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66483-1-Ig (CK7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human prostate cancer tissue using Cytokeratin 7 antibody (66483-1-Ig, Clone: 2E1G5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



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