

For Research Use Only

Cytokeratin 7 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86153-7-PBS



Basic Information

Catalog Number:

86153-7-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_005556

GeneID (NCBI):

3855

UNIPROT ID:

P08729

Full Name:

keratin 7

Calculated MW:

51 kDa

Observed MW:

51 kDa

Purification Method:

Protein A purification

CloneNo.:

242229F1

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, Indirect ELISA

Species Specificity:

human

Background Information

Cytokeratin 7 (CK7) is a type II keratin protein that is a principal constituent of the intermediate filament cytoskeleton. It is primarily expressed in simple epithelia lining the cavities of internal organs, glandular ducts, and blood vessels. Abnormal expression of CK7 has been linked to various pathological conditions, including cancer. Overexpression of CK7 promotes tumor progression and metastasis in different human cancers, and its suppression leads to rapid tumor regression, highlighting its potential as a therapeutic target. CK7 is also involved in inhibiting interferon-dependent interphase, promoting DNA synthesis, initiating translation possibly through interaction with p150 (the largest subunit of eukaryotic translation initiation factor 3), and interacting with G protein-coupled estrogen receptor 1 (GPER1), which activates several signaling pathways. In the context of cancer diagnosis, CK7 is used as a marker to distinguish between different types of carcinomas. It is expressed in most adenocarcinomas, particularly those of the lung and colorectal origin, and is useful in differentiating primary ovarian carcinoma from metastatic colorectal carcinoma. CK7 expression has also been studied as a predictor of an unfavorable prognosis in colorectal carcinoma.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

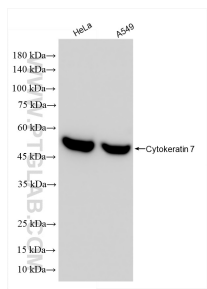
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

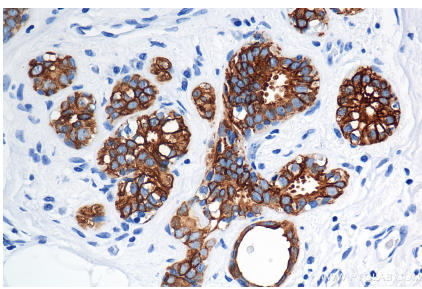
E: proteintech@ptglab.com
W: ptglab.com

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

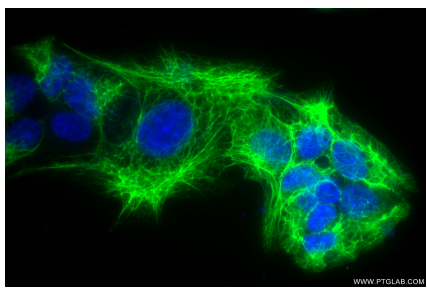
Selected Validation Data



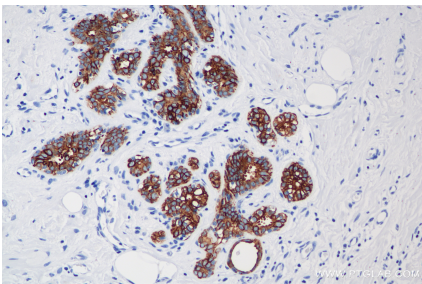
Various lysates were subjected to SDS PAGE followed by western blot with 86153-7-RR (CK7-Specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86153-7-PBS in a different storage buffer formulation.



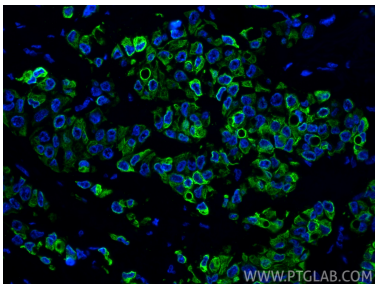
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 86153-7-RR (Cytokeratin 7 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86153-7-PBS in a different storage buffer formulation.



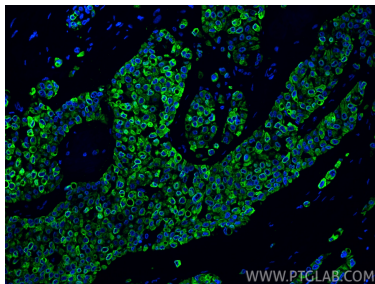
Immunofluorescent analysis of (-20°C Methanol) fixed HEPG2 cells using Cytokeratin 7 antibody (86153-7-RR, Clone: 242229F1) at dilution of 1:2000 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 86153-7-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 86153-7-RR (Cytokeratin 7 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86153-7-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human breast cancer tissue using Cytokeratin 7 antibody (86153-7-RR, Clone: 242229F1) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86153-7-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human breast cancer tissue using Cytokeratin 7 antibody (86153-7-RR, Clone: 242229F1) at dilution of 1:200 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 86153-7-PBS in a different storage buffer formulation.