

For Research Use Only

COSMC Polyclonal antibody

Catalog Number: 19254-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

19254-1-AP

Size:

150ul, Concentration: 260 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6899

GenBank Accession Number:

BC050441

GeneID (NCBI):

29071

UNIPROT ID:

Q96EU7

Full Name:

C1GALT1-specific chaperone 1

Calculated MW:

36 kDa

Observed MW:

36-37 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

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 : HeLa cells, HepG2 cells, Caco-2 cells

IHC : human colon cancer tissue,

Background Information

COSMC (C1GALT1C1) is a molecular chaperone required for expression of active T-synthase (C1GALT1) which catalyzes the synthesis of Tn antigen. Tn antigens are cancer-associated glycans and play an important role in tumor progression. Dysfunctional COSMC is able to convert a wild type protein into a tumor-specific antigen affecting tumor cell biology. COSMC overexpression had been observed in various cancers. COSMC mutations have been observed in an autoimmune disease Tn syndrome.

Notable Publications

Author	Pubmed ID	Journal	Application
Ruisong Ding	34644263	Aging (Albany NY)	WB
Li Huang	33040455	Aging Cell	WB
Lin Luo	32683071	Respir Physiol Neurobiol	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

*** 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)

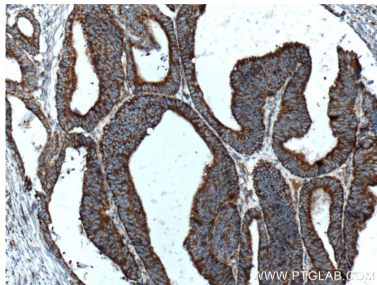
E: proteintech@ptglab.com
W: ptglab.com

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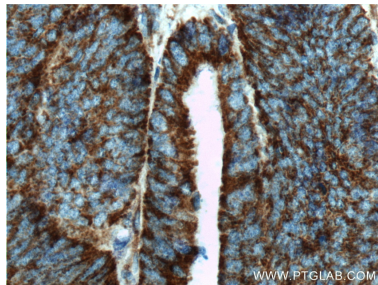
Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 19254-1-AP (COSMC antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 19254-1-AP (COSMC 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 colon cancer tissue slide using 19254-1-AP (COSMC antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).