

For Research Use Only

JAGN1 Polyclonal antibody

Catalog Number: 34193-1-AP



Basic Information

Catalog Number: 34193-1-AP	GenBank Accession Number: BC032101	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 340 µg/ml by Nanodrop;	GeneID (NCBI): 84522	Recommended Dilutions: WB: 1:500-1:2000 IHC: 1:50-1:500
Source: Rabbit	UNIPROT ID: Q8N5M9	
Isotype: IgG	Full Name: jagunal homolog 1 (Drosophila)	
Immunogen Catalog Number: AG40789	Calculated MW: 183 aa, 21 kDa	
	Observed MW: 21 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
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 : HeLa cells, HepG2 cells, MCF-7 cells, PC-3 cells, C6 cells

IHC : human colon cancer tissue,

Background Information

Jagunal homolog 1 (JAGN1) is an evolutionarily conserved endoplasmic reticulum (ER) membrane protein essential for neutrophil differentiation and function. First identified in Drosophila for its role in ER organization, human JAGN1 mutations cause severe congenital neutropenia type 5, characterized by recurrent infections due to impaired granulocyte development. JAGN1 regulates glycoprotein folding, ER-Golgi trafficking, and N-glycosylation of proteins critical for neutrophil viability. Loss of JAGN1 leads to ER stress, apoptosis of myeloid progenitors, and defective neutrophil migration. Its indispensable role in innate immunity highlights JAGN1 as a potential therapeutic target for neutropenia and immunodeficiency disorders (PMID: 25129144; 37120535; 33207009; 38739706).

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**

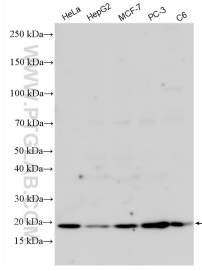
For technical support and original validation data for this product please contact:

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

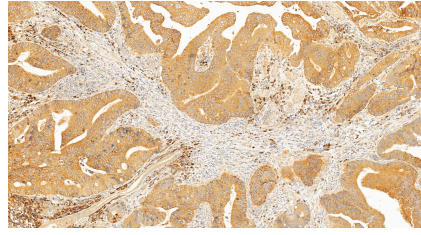
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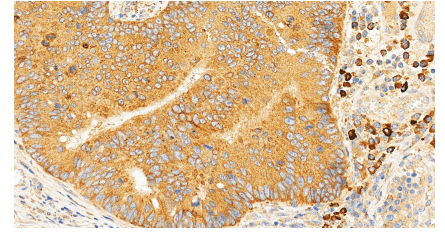
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 34193-1-AP (JAG1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 34193-1-AP (JAG1 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 34193-1-AP (JAG1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).