

For Research Use Only

# JAGN1 Polyclonal antibody

Catalog Number: 34193-1-AP



## Basic Information

<b>Catalog Number:</b> 34193-1-AP	<b>GenBank Accession Number:</b> BC032101	<b>Purification Method:</b> Antigen affinity Purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 84522	<b>Recommended Dilutions:</b> WB: 1:500-1:2000 IHC: 1:50-1:500
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q8N5M9	
<b>Immunogen Catalog Number:</b> AG40789	<b>Full Name:</b> jagunal homolog 1 (Drosophila)	
	<b>Calculated MW:</b> 183 aa, 21 kDa	
	<b>Observed MW:</b> 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

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

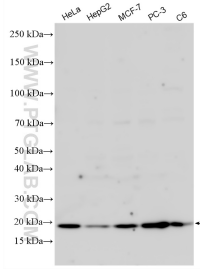
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

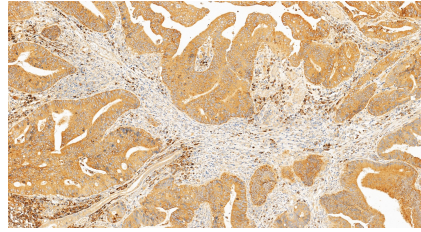
W: [ptgcn.com](http://ptgcn.com)

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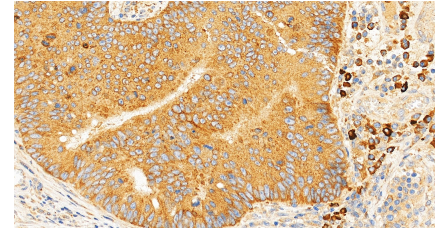
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 34193-1-AP (JAGN1 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 (JAGN1 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 (JAGN1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).