

For Research Use Only

# NOTCH4 Polyclonal antibody

Catalog Number: 33280-1-AP



## Basic Information

<b>Catalog Number:</b> 33280-1-AP	<b>GenBank Accession Number:</b> BC140782	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4855	<b>Recommended Dilutions:</b> WB: 1:500-1:2000 IHC: 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99466	
<b>Isotype:</b> IgG	<b>Full Name:</b> Notch homolog 4 (Drosophila)	
<b>Immunogen Catalog Number:</b> AG36738	<b>Calculated MW:</b> 2003 aa, 210 kDa	
	<b>Observed MW:</b> 210 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

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

IHC : mouse lung tissue, mouse heart tissue, mouse kidney tissue

## Background Information

Neurogenic locus notch homolog protein 4 (NOTCH4) is a receptor involved in the Notch signaling pathway, which is synthesized as a precursor that undergoes proteolytic cleavage to form an active receptor. NOTCH4 interacts with various ligands, leading to the release of the Notch intracellular domain (NICD), which translocates to the nucleus and regulates gene expression (PMID: 28794168; 19379690; 17148788). NOTCH4 is involved in various biological processes, including embryonic development, immune cell differentiation, and tumorigenesis (PMID: 24667410; 34925319).

## 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**

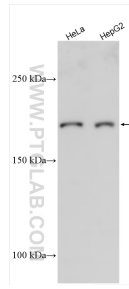
For technical support and original validation data for this product please contact:

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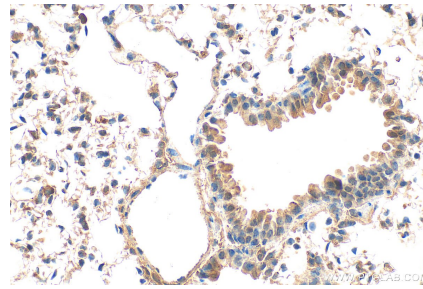
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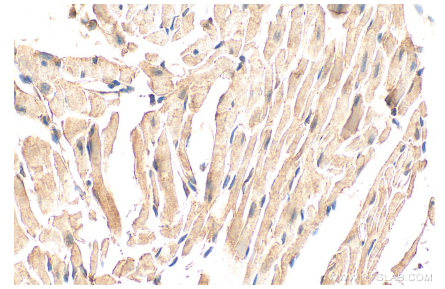
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33280-1-AP (NOTCH4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 33280-1-AP (NOTCH4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 33280-1-AP (NOTCH4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).