

For Research Use Only

NOTCH3 Polyclonal antibody

Catalog Number: 55114-1-AP **25 Publications**



Basic Information

Catalog Number: 55114-1-AP	GenBank Accession Number: NM_000435	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 600 µg/ml by Nanodrop and 187 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4854	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB IHC 1:50-1:500
Source: Rabbit	Full Name: Notch homolog 3 (Drosophila)	
Isotype: IgG	Calculated MW: 244 kDa	
	Observed MW: 250-260 kDa, 100 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB: A2780 cells, U2OS cells, COLO 320 cells, A2780 cells, Caco-2 cells, HeLa cells, K-562 cells IP: HeLa cells, IHC: human lung cancer tissue, human breast cancer tissue, human kidney tissue
Cited Applications: IHC, WB	
Species Specificity: human, mouse	
Cited Species: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

NOTCH3 belongs to the NOTCH family. It functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBP-J kappa and activates genes of the enhancer of split locus. NOTCH3 affects the implementation of differentiation, proliferation and apoptotic programs. Defects in NOTCH3 are the cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). The antibody is specific to NOTCH3. Notch3 is a single-pass type I membrane protein exposed at the cell surface as a heterodimer of 2321 amino acids. It is synthesized as a precursor with a molecular weight of ~280 kDa (Notch3 full-length), which is cleaved (S1 cleavage) into a 210 kDa extracellular fragment and a 97 kDa intracellular fragment (PMID: 21702048).

Notable Publications

Author	Pubmed ID	Journal	Application
Wen-Cheng Chung	28938159	Neoplasia	WB, IHC
Wen-Cheng Chung	29142904	Oncoscience	IHC
Eva Christine Schumacher	29054136	Stem Cells Dev	WB

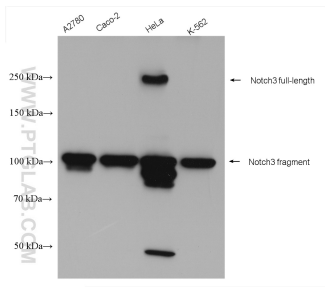
Storage

Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

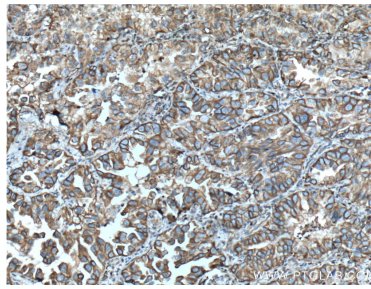
For technical support and original validation data for this product please contact:
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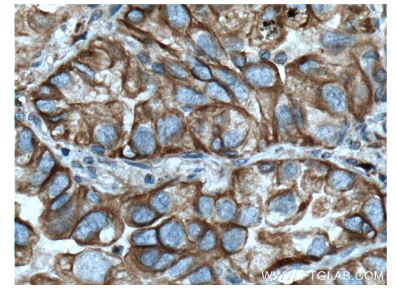
Selected Validation Data



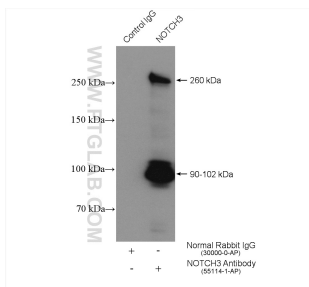
Various lysates were subjected to SDS PAGE followed by western blot with 55114-1-AP (NOTCH3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 55114-1-AP (NOTCH3 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 lung cancer tissue slide using 55114-1-AP (NOTCH3 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-NOTCH3(IP:55114-1-AP, 4ug; Detection:55114-1-AP 1:500) with HeLa cells lysate 2400 ug.