

Cleaved-Notch 1 (V1754) Polyclonal Antibody

Catalog No: YC0067

Reactivity: Human; Mouse; Rat

Applications: WB;IF;IHC;ELISA

Target: Notch-1

Fields: >>Endocrine resistance;>>Notch signaling pathway;>>Th1 and Th2 cell

differentiation;>>Thyroid hormone signaling pathway;>>Prion disease;>>Human papillomavirus infection;>>Pathways in cancer;>>MicroRNAs in cancer;>>Breast

cancer

Gene Name: NOTCH1

Protein Name: Neurogenic locus notch homolog protein 1

P46531

Q01705

Human Gene Id: 4851

Human Swiss Prot

No:

Mouse Gene Id: 18128

Mouse Swiss Prot

No:

Rat Swiss Prot No: Q07008

Immunogen: The antiserum was produced against synthesized peptide derived from human

Notch 1. AA range:1735-1784

Specificity: Cleaved-Notch 1 (V1754) Polyclonal Antibody detects endogenous levels of

fragment of activated Notch 1 protein resulting from cleavage adjacent to V1754.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500-2000, IHC 1:50-300, IF 1:50-300

1/5



Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

-15°C to -25°C/1 year(Do not lower than -25°C) Storage Stability:

Observed Band: 110kD

Dorso-ventral axis formation; Notch; Prion diseases; **Cell Pathway:**

Background: notch 1(NOTCH1) Homo sapiens This gene encodes a member of the NOTCH

> family of proteins. Members of this Type I transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple

epidermal growth factor-like (EGF) repeats, and an intracellular domain

consisting of multiple different domain types. Notch signaling is an evolutionarily conserved intercellular signaling pathway that regulates interactions between physically adjacent cells through binding of Notch family receptors to their cognate ligands. The encoded preproprotein is proteolytically processed in the trans-Golgi network to generate two polypeptide chains that heterodimerize to form the mature cell-surface receptor. This receptor plays a role in the

development of numerous cell and tissue types. Mutations in this gene are associated with aortic valve disease, Adams-Oliver syndrome, T-cell acute

lymphoblastic leukemia, chronic lymph

Function: disease:Defects in NOTCH1 are a cause of aortic valve disease [MIM:109730].

> The disorder consists of an early developmental defect in the aortic valve and a later de-repression of calcium deposition that causes progressive aortic valve disease. Calcification of the aortic valve is the third leading cause of heart disease in adults. The incidence increases with age, and it is often associated with a bicuspid aortic valve present in 1-2% of the population., disease: NOTCH1

truncation is associated with T-cell acute lymphoblastic

leukemia., function: 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. Affects the implementation of differentiat

Subcellular Location:

Cell membrane; Single-pass type I membrane protein.; [Notch 1 intracellular domain]: Nucleus . Following proteolytical processing NICD is translocated to the

nucleus. Nuclear location may require MEGF10...

In fetal tissues most abundant in spleen, brain stem and lung. Also present in **Expression:**

most adult tissues where it is found mainly in lymphoid tissues.

orthogonal, hot Tag:



Sort: 1

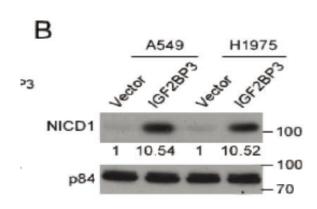
No3: ab52627

No4: 1

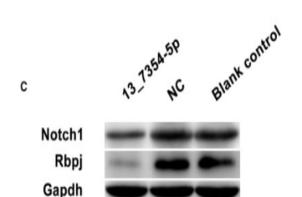
Host: Rabbit

Modifications: Unmodified

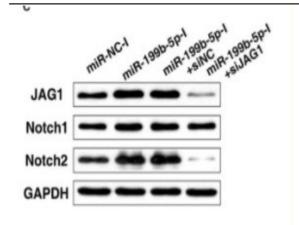
Products Images



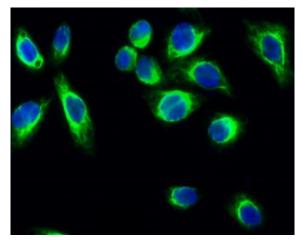
m6A-Dependent Modulation via IGF2BP3/MCM5/Notch Axis Promotes Partial EMT and LUAD Metastasis. Junchao Cai IHC,IF Human 1:200 lung adenocarcinoma (LUAD) tissue A549 cell,H1975 cell



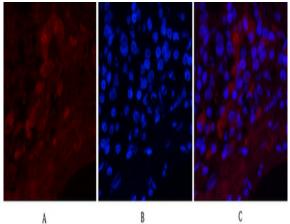
Zhao, Feng, et al. "Novel mouse miRNA Chr13_novelMiR7354-5p improves bone-marrow-derived mesenchymal stem cell differentiation into insulin-producing cells." Molecular Therapy-Nucleic Acids 19 (2020): 1110-1122.



Qu, Xiaochen, et al. "MiR-199b-5p inhibits osteogenic differentiation in ligamentum flavum cells by targeting JAG1 and modulating the Notch signalling pathway." Journal of cellular and molecular medicine 21.6 (2017): 1159-1170.

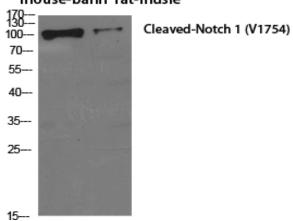


Immunofluorescence analysis of Hela cell. 1,Cleaved-Notch 1 (V1754) Polyclonal Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.

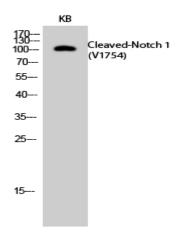


Immunofluorescence analysis of Human-lung-cancer tissue. 1,Cleaved-Notch 1 (V1754) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

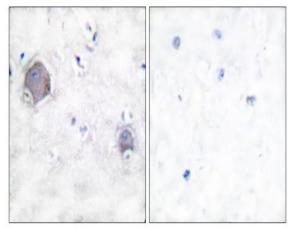
mouse-barin rat-musle



Western Blot analysis of various cells using Cleaved-Notch 1 (V1754) Polyclonal Antibody diluted at 1:500



Western Blot analysis of KB cells using Cleaved-Notch 1 (V1754) Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using Notch 1 (Cleaved-Val1754) Antibody. The picture on the right is blocked with the synthesized peptide.