

Product Name: Cleaved-Notch 2 (A1734) Rabbit Polyclonal Antibody Catalog #: APRab09019

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,ELISA 1:5000-1:20000

Molecular Weight 110(cleaved)kDa

Antigen Information

Gene Name NOTCH2

Alternative Names NOTCH2; Neurogenic locus notch homolog protein 2; Notch 2; hN2

 Gene ID
 4853.0

 SwissProt ID
 Q04721

The antiserum was produced against synthesized peptide derived from human NOTCH2. AA Immunogen

range:1715-1764

Background

notch 2(NOTCH2) Homo sapiens This gene encodes a member of the Notch family. Members of this Type 1 transmembrane

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protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factorlike (EGF) repeats, and an intracellular domain consisting of multiple, different domain types. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In Drosophilia, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cledisease:Defects in NOTCH2 are the cause of Alagille syndrome type 2 (ALGS2) [MIM:610205]. Alagille syndrome is an autosomal dominant multisystem disorder defined clinically by hepatic bile duct paucity and cholestasis in association with cardiac, skeletal, and ophthalmologic manifestations. There are characteristic facial features and less frequent clinical involvement of the renal and vascular systems.,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 differentiation, proliferation and apoptotic programs.,PTM:Phosphorylated.,PTM:Synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase in the trans-Golgi network before it reaches the plasma membrane to yield an active, ligand-accessible form. Cleavage results in a C-terminal fragment N(TM) and a N-terminal fragment N(EC). Following ligand binding, it is cleaved by TNF-alpha converting enzyme (TACE) to yield a membraneassociated intermediate fragment called notch extracellular truncation (NEXT). This fragment is then cleaved by presenilin dependent gamma-secretase to release a notch-derived peptide containing the intracellular domain (NICD) from the membrane, similarity: Belongs to the NOTCH family, similarity: Contains 3 LNR (Lin/Notch) repeats, similarity: Contains 35 EGFlike domains, similarity: Contains 6 ANK repeats, subcellular location: Following proteolytical processing NICD is translocated to the nucleus., subunit: Heterodimer of a C-terminal fragment N(TM) and an N-terminal fragment N(EC) which are probably linked by disulfide bonds (By similarity). Interacts with MAML1, MAML2 and MAML3 which act as transcriptional coactivators for NOTCH2., tissue specificity: Expressed in the brain, heart, kidney, lung, skeletal muscle and liver.,

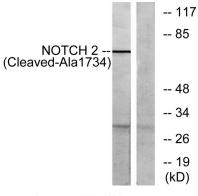
Research Area

Dorso-ventral axis formation; Notch;

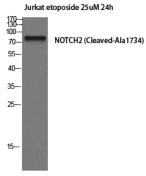
Image Data

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Western blot analysis of lysates from Jurkat cells, treated with etoposide 25uM 24h, using NOTCH2 (Cleaved-Ala1734) Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of Jurkat cells using Cleaved-Notch 2 (A1734) Polyclonal Antibody diluted at 1: 2000