Datasheet for ABIN2777549

anti-NOTCH2 antibody (Middle Region)

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Overview

Quantity:	100 µL
Target:	NOTCH2
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Dog, Pig, Cow, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NOTCH2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human NOTCH2
Sequence:	FPASVGKYPT PPSQHSYASS NAAERTPSHS GHLQGEHPYL TPSPESPDQW
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 93%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against NOTCH2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	NOTCH2

Target Details

Alternative Name:	NOTCH2 (NOTCH2 Products)
Background:	NOTCH2 is a member of the Notch family. 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. NOTCH2 is cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. NOTCH2 functions as a receptor for membrane bound ligands, and may play a role in vascular, renal and hepatic development.This gene encodes a member of the Notch family. Members of this Type 1 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 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 cleaved in the trans-Golgi network, and presented on the cell surface as a heterodimer. This protein functions as a receptor for membrane bound ligands, and may play a role in vascular, renal and hepatic development. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: AGS2, hN2, HJCYS Protein Interaction Partner: ASB14, EGFL7, LATS2, ANKRD28, UBC, SMAD1, NOTCH1, SIN3A, SPEN, SEC24C, TJP1, PSMB1, PLAUR, PCMT1, NDUFV2, NDUFV1, MYOC, CRKL, MAML3, MAML2, CNTN1, DLL1, MAML1, GSK3B, DTX1, MFNG, LFNG, JAG2, JAG1, PSEN2, RBPJ, PSEN1, tat, Protein Size: 2471
Molecular Weight:	85 kDa
Gene ID:	4853
NCBI Accession:	NM_024408, NP_077719

Target Details

UniProt:	Q04721
Pathways:	Notch Signaling, Stem Cell Maintenance

Application Details

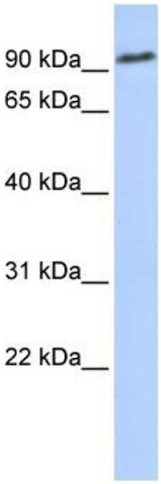
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 2471 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Tilley, Harvey, Heguy, Hackett, Wang, OConnor, Crystal: "Down-regulation of the notch pathway in human airway epithelium in association with smoking and chronic obstructive pulmonary disease." in: **American journal of respiratory and critical care medicine**, Vol. 179, Issue 6, pp. 457-66, (2009) (PubMed).



Western Blotting

Image 1. WB Suggested Anti-NOTCH2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 721_B cell lysate There is BioGPS gene expression data showing that NOTCH2 is expressed in 721_B