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Datasheet for 100-401-405

NOTCH 1 Antibody

Overview

Description:	Anti-NOTCH 1 (intra) (RABBIT) Antibody - 100-401-405
Item No.:	100-401-405
Size:	200 µL
Applications:	ELISA, IHC
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Notch-1 is synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase (S1 cleavage) 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 (S2 cleavage) by TNF-alpha converting enzyme (TACE) to yield a membrane-associated intermediate fragment called Notch extracellular truncation (NEXT). This fragment is then cleaved by presenilin-dependent gamma-secretase (S3 cleavage) to release the intracellular domain (NICD) from the membrane. Anti-Notch 1 Antibody is useful for researchers interested in Notch pathways, cancer research, transcription factors, and DNA binding research.
Synonyms:	rabbit anti-notch1 antibody, hN1 antibody, Neurogenic locus Notch homolog protein 1 antibody, Notch 1 intracellular domain antibody, Notch homolog 1 translocation associated antibody, TAN1 antibody, Translocation associated Notch protein TAN1 antibody, NICD
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	NOTCH1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Notch antibody was prepared by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acid 2480-2510 of human Notch 1. A residue of cysteine was added to the amino terminal end to facilitate coupling.
Purity/Specificity:	Notch1 antibody is directed against human NOTCH 1. No reaction is detected against NOTCH 2. No reactivity was observed against Mouse Notch. Other species have not been tested.
Relevant Links:	• UniProtKB - P46531 • NCBI - CAG33502.1 • GeneID - 4851

Application Details

Tested Applications:	ELISA, IHC
Application Note:	Anti-Notch-1 has been tested in IHC and ELISA. This antibody is useful in western blot. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

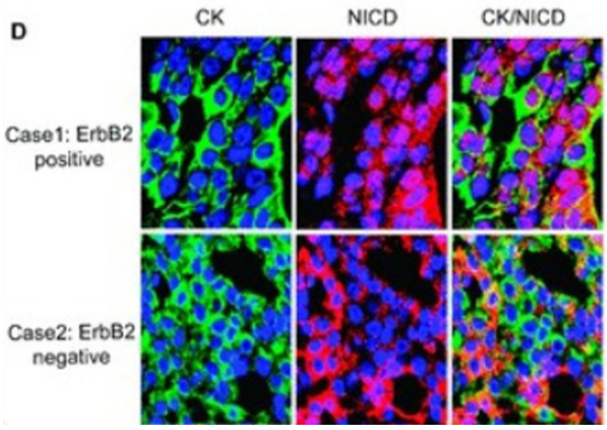
Physical State:	Liquid (sterile filtered)
Concentration:	75 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

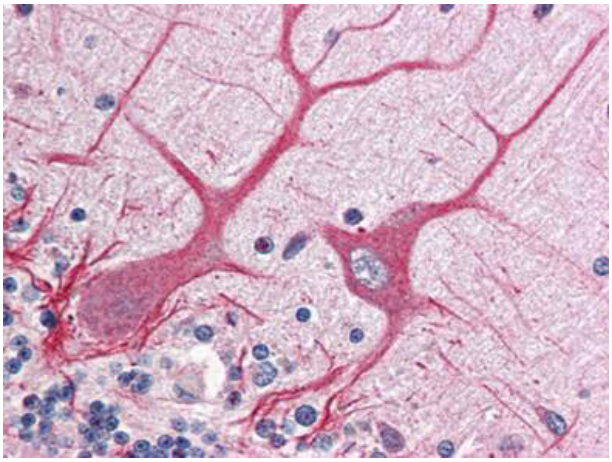
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Oncogene regulation of Notch activity. (D) Nuclear localization of Notch 1 intracellular domain (NICD) assessed by immunohistochemical staining of invasive ductal carcinomas (case 1 and case 2 as above; magnification ×60). Fig 1. PMID: 20443831.



Immunohistochemistry
Rockland's anti-NOTCH 1 antibody was diluted 1:500 to detect NOTCH 1 in human brain cerebellum tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

References

- Lindsay, J et al. ErbB2 induces Notch1 activity and function in breast cancer cells. *Clinical and Translational Science* (2008)

Disclaimer

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