

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

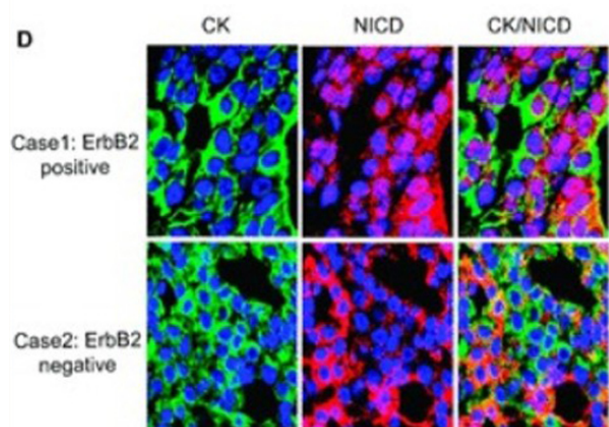
Physical State:	Liquid (sterile filtered)
Concentration:	75 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

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.

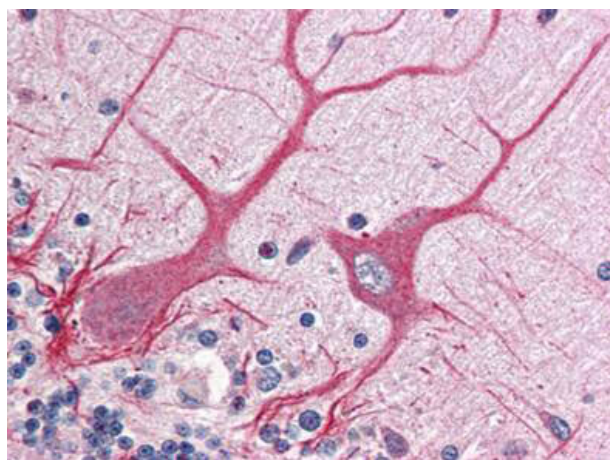
Expiration: Expiration date is one (1) year from date of receipt.

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 $\times 60$). 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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.