Datasheet for ABIN807923

anti-Notch1 antibody

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Overview

Quantity:	0.1 mg
Target:	Notch1 (NOTCH1)
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Notch1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	GST fusion protein containing cdc10-NCR region of mouse Notch1
Clone:	MN1A
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody mN1A recognizes intracellular domain of Notch 1 protein, mainly its activated form. The unprocessed Notch 1 protein is recognized with lower affinity.
No Cross-Reactivity:	Rat
Cross-Reactivity (Details):	Human, Mouse
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	Notch1 (NOTCH1)
Alternative Name:	Notch 1 (NOTCH1 Products)
Background:	Notch receptor 1,Notch 1 is a 270-300 kDa transmembrane heterodimeric protein with multiple extracellular growth factor-like repeats, and with an intracellular domain consisting of multiple different domain types. It serves as a receptor for membrane ligands, such as Delta 1, Jagged 1 (CD339), and Jagged 2, and regulates cell fate decisions. Upon ligand binding the transmembrane form of Notch 1 is repeatedly cleaved to provide approximately 120 kDa Notch intracellular fragment (NICD), which translocates to the nucleus and acts as a part of transcriptional complexes that alter differentiation, proliferation, and apoptosis. The highest level of Notch 1 expression is in brain, lung and thymus.,AOS5, TAN1, hN1, AOVD1
Gene ID:	4851
UniProt:	P46531
Pathways:	Notch Signaling, Stem Cell Maintenance, Regulation of Muscle Cell Differentiation, Tube Formation, Skeletal Muscle Fiber Development

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL. Intracellular staining.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
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:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

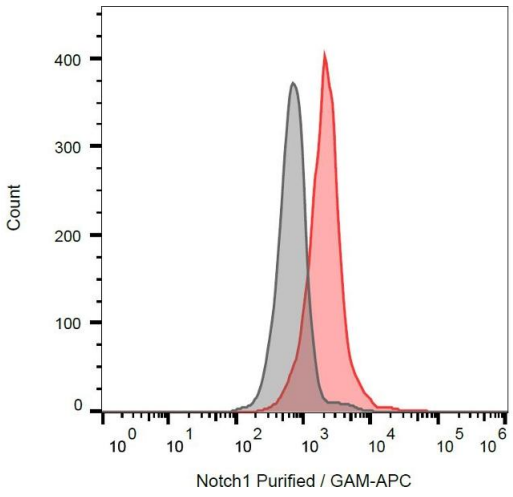
Khwaja, Liu, Tong, Jin, Pear, van Deursen, Bram: "HIV-1 Rev-binding protein accelerates cellular uptake of iron to drive Notch-induced T cell leukemogenesis in mice." in: **The Journal of clinical investigation**, Vol. 120, Issue 7, pp. 2537-48, (2010) (PubMed).

Watanabe, Nagaoka, Lee, Bianco, Gonzales, Castro, Rangel, Sakamoto, Sun, Callahan, Salomon : "Enhancement of Notch receptor maturation and signaling sensitivity by Cripto-1." in: **The Journal of cell biology**, Vol. 187, Issue 3, pp. 343-53, (2009) (PubMed).

Sun, Li, Vercherat, Gulbagci, Acharjee, Li, Chung, Thin, Taneja: "Stra13 regulates satellite cell activation by antagonizing Notch signaling." in: **The Journal of cell biology**, Vol. 177, Issue 4, pp. 647-57, (2007) (PubMed).

Huppert, Le, Schroeter, Mumm, Saxena, Milner, Kopan: "Embryonic lethality in mice homozygous for a processing-deficient allele of Notch1." in: **Nature**, Vol. 405, Issue 6789, pp. 966-70, (2000) (PubMed).

Images



Flow Cytometry

Image 1. Separation of Jurkat cells stained using anti-Notch1 (mN1A) purified antibody (concentration in sample 16 µg/mL, GAM APC, red) from Jurkat cells unstained by primary antibody (GAM APC, black) in flow cytometry analysis (intracellular staining).