ARG63870
anti-NOTCH3 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes NOTCH3
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	FACS, IHC-P
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	NOTCH3
Species	Human
Immunogen	C-QLGPQPEVTPKRQ
Conjugation	Un-conjugated
Alternate Names	LMNS; CADASIL; CASIL; Neurogenic locus notch homolog protein 3; IMF2; Notch 3

Application Instructions

Application table

Application	Dilution
FACS	10 µg/ml
IHC-P	4 - 6 µg/ml

Application Note: IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

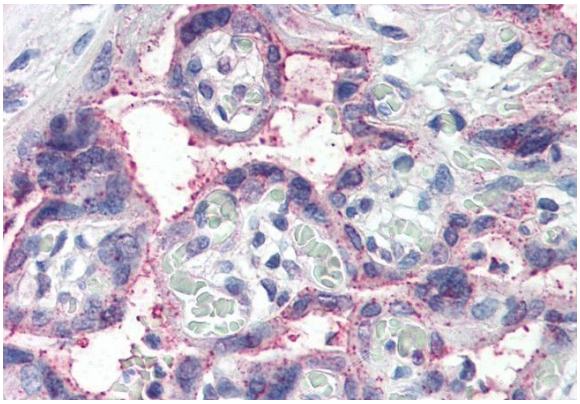
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

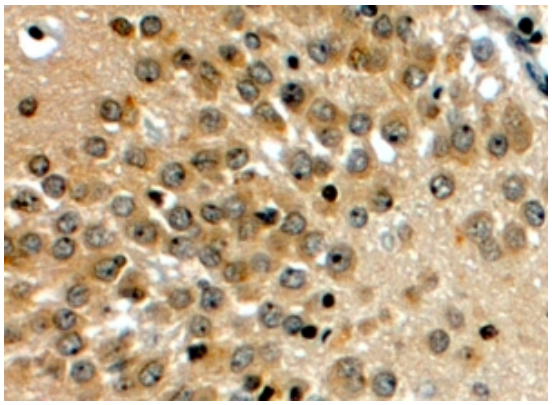
Database links	GeneID: 4854 Human Swiss-port # Q9UM47 Human
Background	This gene encodes the third discovered human homologue of the Drosophilia melanogaster type I membrane protein notch. In Drosophilia, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signalling pathway that plays a key role in neural development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remains to be determined. Mutations in NOTCH3 have been identified as the underlying cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). [provided by RefSeq, Jul 2008]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Gene Regulation antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	244 kDa
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 membrane-associated 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 (By similarity). Phosphorylated. Hydroxylated by HIF1AN.

Images



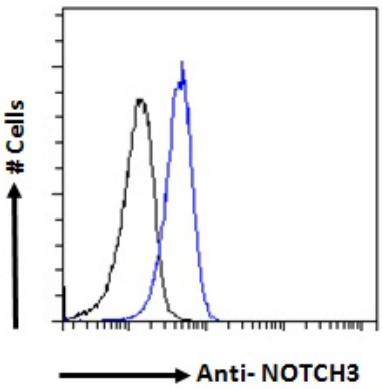
ARG63870 anti-Notch 3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63870 anti-Notch 3 antibody at 5 µg/ml dilution followed by AP-staining.



ARG63870 anti-Notch 3 antibody IHC-P image

Immunohistochemistry: Paraffin embedded Human Hippocampus. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63870 anti-Notch 3 antibody at 4 µg/ml dilution followed by HRP-staining.



ARG63870 anti-Notch 3 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed HeLa cells permeabilized with 0.5% Triton. Cells were stained with ARG63870 anti-Notch 3 antibody (blue line) at 10 µg/ml dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).