

Notch Isoform Antibody Sampler Kit

Cat# AK0208

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Notch proteins (Notch1-4) are a family of transmembrane receptors that play important roles in development and the determination of cell fate. Mature Notch receptors are processed and assembled as heterodimeric proteins, with each dimer comprised of a large extracellular ligand-binding domain, a single-pass transmembrane domain, and a smaller cytoplasmic subunit (Notch intracellular domain, NICD). Binding of Notch receptors to ligands of the Delta-Serrate-Lag2 (DSL) family triggers heterodimer dissociation, exposing the receptors to proteolytic cleavages; these result in release of the NICD, which translocates to the nucleus and activates transcription of downstream target genes. Constitutively activated Notch1 signaling is associated with the majority of cases of T cell acute lymphoblastic leukemia (T-ALL). The activation is either due to mutations in Notch1 itself or in the components of ubiquitin ligase complex, namely FBW7. Notch2 is a member of the Notch family and mutation in Notch2 is associated with Alagille syndrome. Notch3 is a member of the Notch family and is processed similar to Notch1. It is expressed primarily in arterial smooth muscle cells (SMC). Mutations altering the number of cysteine residues in the notch3 extracellular region are associated with cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL), a hereditary angiopathy leading to strokes and dementia in adults. Recent studies indicate that Notch3 is overexpressed in many types of cancer.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340395	Cleaved-NOTCH1 (V1754) Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340126	NOTCH1 Polyclonal Antibody	20µL	WB, IHC, ELISA	Human, Rat	Rabbit
A340396	Cleaved-NOTCH2 (A1734) Polyclonal Antibody	20µL	WB, ELISA	Human, Mouse, Rat	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120µL	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.