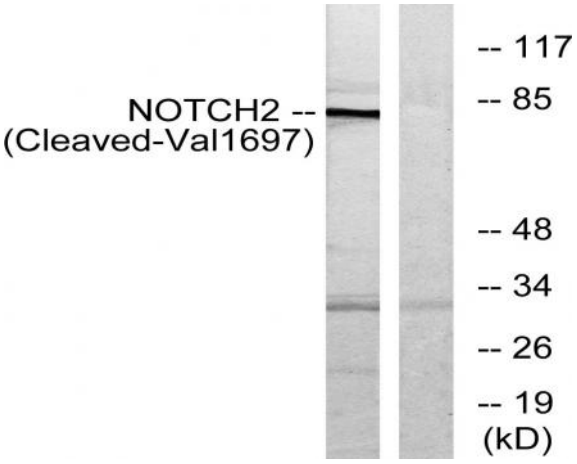
Best Tools for immunology Research

Cleaved-Notch 2 (V1697) Polyclonal Antibody

Catalog No :	YC0070
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	Notch 2
Fields :	>>Endocrine resistance;>>Notch signaling pathway;>>Th1 and Th2 cell differentiation;>>Thyroid hormone signaling pathway;>>Human papillomavirus infection;>>Pathways in cancer;>>MicroRNAs in cancer;>>Chemical carcinogenesis - receptor activation;>>Breast cancer
Gene Name :	NOTCH2
Protein Name :	Neurogenic locus notch homolog protein 2
Human Gene Id :	4853
Human Swiss Prot No :	Q04721
Mouse Gene Id :	18129
Mouse Swiss Prot No :	O35516
Rat Gene Id :	29492
Rat Swiss Prot No :	Q9QW30
Immunogen :	The antiserum was produced against synthesized peptide derived from human NOTCH2. AA range:1678-1727
Specificity :	Cleaved-Notch 2 (V1697) Polyclonal Antibody detects endogenous levels of fragment of activated Notch 2 protein resulting from cleavage adjacent to V1697.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG

Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	110(cleaved)kD
Cell Pathway :	Dorso-ventral axis formation;Notch;
Background :	notch 2(NOTCH2) Homo sapiens This gene encodes a member of the Notch family. Members of this Type 1 transmembrane protein family share structural characteristics including an extracellular domain consisting of multiple epidermal growth factor-like (EGF) repeats, and an intracellular domain consisting of multiple, different domain types. Notch family members play a role in a variety of developmental processes by controlling cell fate decisions. The Notch signaling network is an evolutionarily conserved intercellular signaling pathway which regulates interactions between physically adjacent cells. In Drosophilia, notch interaction with its cell-bound ligands (delta, serrate) establishes an intercellular signaling pathway that plays a key role in development. Homologues of the notch-ligands have also been identified in human, but precise interactions between these ligands and the human notch homologues remain to be determined. This protein is cle
Function :	disease:Defects in NOTCH2 are the cause of Alagille syndrome type 2 (ALGS2) [MIM:610205]. Alagille syndrome is an autosomal dominant multisystem disorder defined clinically by hepatic bile duct paucity and cholestasis in association with cardiac, skeletal, and ophthalmologic manifestations. There are characteristic facial features and less frequent clinical involvement of the renal and vascular systems.,function:Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBP-J kappa and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs.,PTM:Phosphorylated.,PTM:Synthesized in the endoplasmic reticulum as an inactive form which
Subcellular Location :	[Notch 2 extracellular truncation]: Cell membrane ; Single-pass type I membrane protein .; [Notch 2 intracellular domain]: Nucleus . Cytoplasm . Following proteolytical processing NICD is translocated to the nucleus. Retained at the cytoplasm by TCIM (PubMed:25985737). .
Expression :	Expressed in the brain, heart, kidney, lung, skeletal muscle and liver. Ubiquitously expressed in the embryo.

Products Images



Western blot analysis of lysates from Jurkat cells, treated with etoposide 25uM 24h, using NOTCH2 (Cleaved-Val1697) Antibody. The lane on the right is blocked with the synthesized peptide.