

Notch 4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P701028
Synonyms:	Notch4; Int-3; Int3; Notch-4;
Species:	Mouse
Source:	HEK293
Accession:	P31695 (E1042-L1441)
Gene ID:	18132
Molecular Weight:	50-60 kDa

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22µm filtered solution of PB, 500mM NaCl, 10% glycerol, pH 7.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Notch 4 protein serves as a receptor for membrane-bound ligands, including Jagged1, Jagged2, and Delta1, thereby orchestrating cell-fate determination. Following ligand activation, the released notch intracellular domain (NICD) forms a transcriptional activator complex with RBPJ/RBPSUH, instigating the activation of genes within the enhancer of split locus. This versatile protein influences cellular differentiation, proliferation, and apoptotic programs, potentially playing a role in regulating branching morphogenesis during vascular system development. Structurally, it exists as a heterodimer comprising a C-terminal fragment (N(TM)) and a N-terminal fragment (N(EC)), likely connected by disulfide bonds. Notch 4 interacts with transcriptional coactivators MAML1, MAML2, and MAML3, which further modulate downstream transcriptional processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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