Product Name: Recombinant Human Notch2 (C-6His)
Catalog #: PHH2295

Summary

Name	Notch 2
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Neurogenic Locus Notch Homolog Protein 2 is produced by our Mammalian expression system and the target gene encoding Leu26-Gln530 is expressed with a 6His tag at the C-terminus.
Accession #	Q04721
Host	Human Cells
Species	Human
Predicted Molecular Mass	54.9 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

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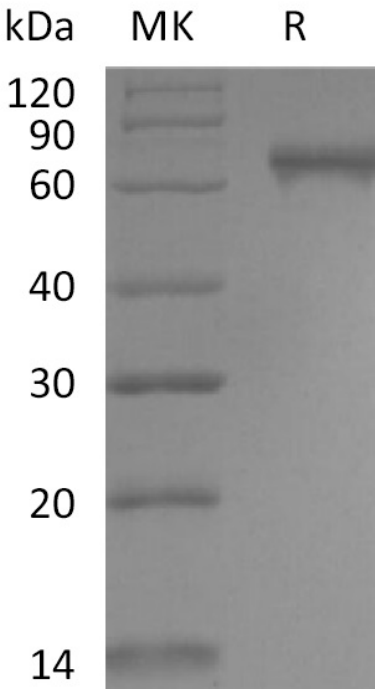

Alternative Names

AGS2; hN2; Notch homolog 2; Notch2; Notch-2; HJCYS

Background

Notch-2 is a 300 kDa type I transmembrane glycoprotein that is one of four human Notch homologues involved in developmental processes. Functions as a receptor for membrane-bound ligands Jagged-1 (JAG1), Jagged-2 (JAG2) and Delta-1 (DLL1) to regulate cell-fate determination. Human Notch-2 ECD (aa 26-530) shows 93%, 93%, 96% and 96% aa identity with the corresponding regions of mouse, rat, canine, and bovine Notch-2, respectively. Hajdu Cheney Syndrome (HCS) is a rare disease associated with mutations of NOTCH2 that lead to the translation of a truncated, presumably stable, NOTCH2 protein. NOTCH2 is down-regulated in colon cancer, and reduced expression is associated with a less differentiated, more aggressive phenotype, and reduced overall survival. NOTCH2 has also been shown to have pro-apoptotic and growth suppressive effects in thyroid carcinoma, and carcinoid tumors. NOTCH2 acts as an oncogene that promotes bladder cancer growth and metastasis through EMT, cell-cycle progression, and maintenance of stemness.

Note

For Research Use Only , Not for Diagnostic Use.