Recombinant Protein Technical Manual

Recombinant Mouse Motch A/NOTCH1 Protein (His Tag)

RPES1014

Product Data:

Product SKU: RPES1014

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q01705

Protein Information:

Molecular Mass: 54.4 kDa

AP Molecular Mass: 70 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20℃, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Neurogenic locus notch homolog protein 1; Notch 1; Motch A; Mt14;lin2;Mis6;N1;Tan1

Immunogen Information:

Sequence: Ala18-Gln526

Background:

Mouse Notch1 is a 300 kDa type I transmembrane glycoprotein and it functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Mouse Notch1 is synthesized as a 2531 amino acid (aa) precursor that contains an 18 aa signal sequence, a 1707 aa extracellular domain (ECD) with 36 EGFlike repeats and three Lin12/notch repeats, a 21 aa transmembrane segment and a 785 aa cytoplasmic domain that contains six ankyrin repeats, a glutamine-rich domain and a PEST sequence. Notch1 may play an essential role in postimplantation development, probably in some aspect of cell specification and/or differentiation and may be involved in mesoderm development, somite formation and neurogenesis.