Recombinant Protein Technical Manual

Recombinant Human/Mouse USP46 Protein (SUMO Tag)

RPES1632

Product Data:

Product SKU: RPES1632

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: NP_808229.1

Protein Information:

Molecular Mass: 42.4 kDa

AP Molecular Mass: 43 kDa

Tag: N-SUMO

Bio-activity:

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

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ 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 sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

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

Application:

Synonyms: USP46

Immunogen Information:

Sequence: Met 1-Glu366

Background:

USP46 belongs to the peptidase C19 family, USP12/USP46 subfamily. Deubiquitinating enzymes (DUBs) are a large group of proteases which are also commonly referred to as deubiquitinating peptidases, deubiquitinating isopeptidases, deubiquitinases, ubiquitin proteases, ubiquitin hydrolyases, ubiquitin isopeptidases, or Dubs. They regulate ubiquitin-dependent metabolic pathways by cleaving ubiquitin-protein bonds. They also may act as negative and positive regulators of the ubiquitin system. Besides ubiquitin recycling, they are also involved in processing of ubiquitin precursors, in proofreading of protein ubiquitination and in disassembly of inhibitory ubiquitin chains. USP46 is a deubiquitinating enzyme that plays a role in behavior, possibly by regulating GABA action. It may act by mediating the deubiquitination of GAD1/GAD67. USP46 has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity and it is not involved in deubiquitination of monoubiquitinated FANCD2.