

Recombinant Human/Mouse USP46 Protein (SUMO Tag)



Catalog Number:PKSH030765

Note: Centrifuge before opening to ensure complete recovery of vial contents.

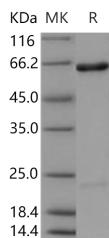
Description

| | |
|-----------------------------|--------------------------|
| Synonyms | USP46 |
| Species | Human |
| Expression Host | Baculovirus-Insect Cells |
| Sequence | Met 1-Glu366 |
| Accession | NP_808229.1 |
| Calculated Molecular Weight | 55.2 kDa |
| Observed molecular weight | 64 kDa |
| Tag | N-SUMO |

Properties

| | |
|----------------|--|
| Purity | > 90 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per μ g of the protein as determined by the LAL method. |
| Storage | Generally, 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°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C 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% glycerol Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 90 % as determined by reducing SDS-PAGE.

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

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a high activity and it is not involved in deubiquitination of monoubiquitinated FANCD2.

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