

Product datasheet

Recombinant Human USP25 protein (Tagged)
 ab269120

1 Image

Description

Product name	Recombinant Human USP25 protein (Tagged)
Purity	> 75 % SDS-PAGE.
Expression system	Escherichia coli
Accession	Q9UHP3
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>KRQDKAPVGLKNGVNTCWFSAVIQSLFNLLFRRLVLNYK PPSNAQDLPR NQKEHRNLPFMRELRYLFALLVGTKRKYWDPSRAVEILKD AFKSNDSSQQQ DVSEFTHKLLDWLEDAFQMKAEEETDEEKPKNPMVELFY GRFLAVGVLEG KKFENTEMFGQYPLQVNGFKDLHECLEAMIEGEIESLHS ENSGKSGQEH WFTLPPVLTFELSRFEFNQALGRPEKIHNKLEFPQVLYL DRYMHRNREI TRIKREEIKRLKDYLTVLQQRLERYLSYGSGPKRFPLVDVL QYALEFASS KPVCTSPVDDIDASSPPSGSIPSQTLPTSTTEQQGALSSEL PSTSPSSVAA ISSRSVIHKPFTQSRIPDLPMHPAPRHITTEELSLESCLH RWRTEIEN DTRDLQESISRIHRTIELMYSKSMIQVPYRLHAVLVHEGQA NAGHYWAY IFDHRESRWMKYNDIAVTKSSWEELVRDSFGGYRNASAY CLMYINDKAQF LIQEEFNKETGQPLVG</p>
Molecular weight information	Approx 85 kDa by SDS-PAGE
Amino acids	162 to 677
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab269120** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
pH: 7.50
Constituents: 0.79% Tris HCl, 0.87% Sodium chloride, 0.31% Glutathione, 0.003% EDTA, 0.004% DTT, 0.002% PMSF, 25% Glycerol (glycerin, glycerine)

General Info

Function Deubiquitinating enzyme that hydrolyzes ubiquitin moieties conjugated to substrates and thus, functions to process newly synthesized Ubiquitin, to recycle ubiquitin molecules or to edit polyubiquitin chains and prevents proteasomal degradation of substrates. Hydrolyzes both 'Lys-48'- and 'Lys-63'-linked tetraubiquitin chains.
The muscle-specific isoform (USP25m) may have a role in the regulation of muscular differentiation and function.

Tissue specificity Isoform USB25a is found in most adult and fetal tissues; expression is moderately high in testis, pancreas, kidney, skeletal muscle, liver, lung, placenta, brain, heart, but very low in peripheral blood, colon, small intestine, ovary, prostate, thymus and spleen. Isoform USB25b is found in all tissues except heart and skeletal muscle. Isoform USB25m is heart and skeletal muscle specific.

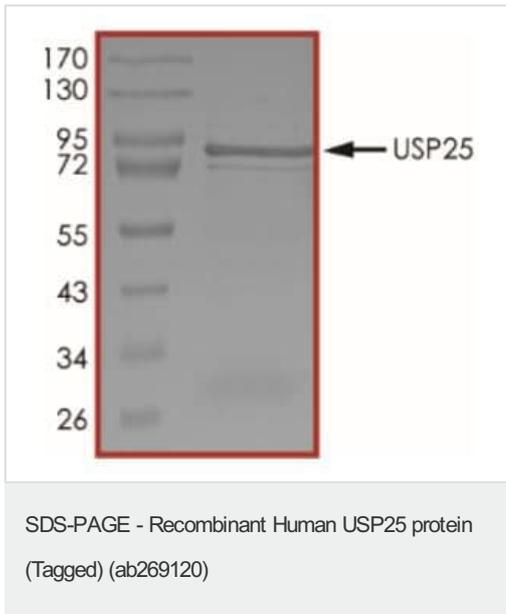
Sequence similarities Belongs to the peptidase C19 family.
Contains 1 UBA-like domain.
Contains 2 UIM (ubiquitin-interacting motif) repeats.

Post-translational modifications Acetylated.
Sumoylation impairs binding to and hydrolysis of ubiquitin chains. Sumoylated preferentially by SUMO2 or SUMO3. Desumoylated by SENP1. Regulated by ubiquitination on the same residue. Preferentially monoubiquitinated but can also be polyubiquitinated. Autodeubiquitinated.
Ubiquitination activates the enzymatic activity either by preventing sumoylation or by allowing novel interactions.
Phosphorylation in the C-terminal by SYK regulates USP25 cellular levels.

Cellular localization Cytoplasm and Cytoplasm. Nucleus. Some transient punctuate nuclear location in myotubes during myocyte development.

Images

SDS-PAGE analysis of ab269120.



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