abcam

Product datasheet

Recombinant human USP14/TGT protein ab198432

2 Images

Description

Product name	Recombinant human USP14/TGT protein
Biological activity	Specific Activity: 56 pmol/min/µg.
	Assay Conditions: Reaction was performed in 50 mM Tris, pH 7.4, 1 mM DTT, 0.5 mM EDTA, 500 nM Ub-AMC, and USP14 in a 50 µL reaction. Reaction was incubated at 37°C for 15 min. and fluorescent signal was measured at excitation = 340 nm, emission = 460 nm.
Purity	>= 75 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P54578
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	PLYSVTVKWGKEKFEGVELNTDEPPMVFKAQLFALTGVQPARQKVMVKGG TLKDDDWGNIKIKNGMTLLMMGSADALPEEPSAKTVFVEDMTEEQLASAM ELPCGLTNLGNTCYMNATVQCIRSVPELKDALKRYAGALRASGEMASAQY ITAALRDLFDSMDKTSSSIPPIILLQFLHMAFPQFAEKGEQGQYLQQDAN ECWIQMMRVLQQKLEAIEDDSVKETDSSSASAATPSKKKSLIDQFFGVEF ETTMKCTESEEEEVTKGKENQLQLSCFINQEVKYLFTGLKLRLQEEITKQ SPTLQRNALYIKSSKISRLPAYLTIQMVRFFYKEKESVNAKVLKDVKFPL MLDMYELCTPELQEKMVSFRSKFKDLEDKKVNQQPNTSDKKSSPQKEVKY EPFSFADDIGSNNCGYYDLQAVLTHQGRSSSSGHYVSWVKRKQDEWIKFD DDKVSIVTPEDILRLSGGGDWHIAYVLLYGPRRVEIMEEESEQ

Predicted molecular weight	57 kDa including tags
Amino acids	2 to 494
Tags	DDDDK tag N-Terminus
Additional sequence information	NM_005151.

Specifications

Our **Abpromise guarantee** covers the use of **ab198432** in the following tested applications.

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

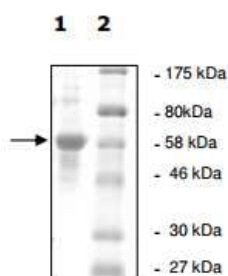|	
Applications	SDS-PAGE
	Functional Studies
Form	Liquid
Additional notes	This product was previously labelled as USP14

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.
	pH: 8.00 Constituents: 0.71% Tris HCl, 0.72% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine), 0.05% (R*,R*)-1,4-Dimercaptobutan-2,3-diol
	90 µg/ml DDDDK peptide
	This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

Function	Proteasome-associated deubiquitinase which releases ubiquitin from the proteasome targeted ubiquitinated proteins. Ensures the regeneration of ubiquitin at the proteasome. Is a reversibly associated subunit of the proteasome and a large fraction of proteasome-free protein exists within the cell. Required for the degradation of the chemokine receptor CXCR4 which is critical for CXCL12-induced cell chemotaxis. Serves also as a physiological inhibitor of endoplasmic reticulum-associated degradation (ERAD) under the non-stressed condition by inhibiting the degradation of unfolded endoplasmic reticulum proteins via interaction with ERN1. Indispensable for synaptic development and function at neuromuscular junctions (NMJs).
Sequence similarities	Belongs to the peptidase C19 family. USP14/UBP6 subfamily. Contains 1 ubiquitin-like domain.
Cellular localization	Cytoplasm. Cell membrane.

Images

10% SDS-PAGE Coomassie staining using 2.8 µg ab198432

(Lane 1). Lane 2: Protein Marker

SDS-PAGE - Recombinant human USP14/TGT protein (ab198432)
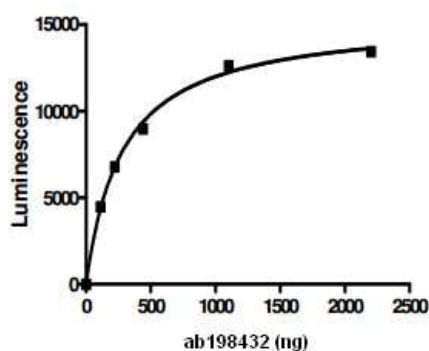
Activity assay using ab198432.

Functional Studies - Recombinant human USP14/TGT protein (ab198432)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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