

Recombinant Human Ubiquitin carboxyl-terminal hydrolase 14(USP14)

Catalog No: #AP70905

Package Size: #AP70905-1 20ug #AP70905-2 100ug #AP70905-3 1mg

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Description

Product Name	Recombinant Human Ubiquitin carboxyl-terminal hydrolase 14(USP14)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-494aaSequence Info:Full Length
Other Names	Deubiquitinating enzyme 14Ubiquitin thioesterase 14Ubiquitin-specific-processing protease 14
Accession No.	P54578
Calculated MW	60.1 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MPLYSVTVKVGKEKFEGVELNTDEPPMVFKAQLFALTGVQPARQKVMVKGGLKDDDWGNIKIKNGMTLLM MGSADALPEEPSAKTVFVEDMTEEQLASAMELPCGLTNLGNTCYMNATVQCIRSVPELKDALKRYAGALRAS GEMASAQYITAALRDLFDSMDKTSSSIPPIILLQFLHMAFPQFAEKGEQGQYLQQDANECWIQMMRVLQQKLE AIEDDSVKETDSSSASAATPSKKKSLIDQFFGVFEFETTMKCTESEEEVTKGKENQLQLSCFINQEVKYLFTGL KLRLQEEITKQSPTLQRNALYIKSSKISRLPAYLTIQMVRFFYKEKESVNAKVLDVKFPLMLDMYELCTPELQE KMVSFRSKFKDLEDKKVNQQPNTSDKKSSPQKEVKYEPFSFADDIGSNNGYYDLQAVLTHQGRSSSSGHY VSWVKRKQDEWIKFDDDKVSIPTPEDILRLSGGGDWHIAYVLLYGPRRVEIMEESEQ
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 chokine receptor CXCR4 which is critical for CXCL12-induced cell chotaxis. 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).

References

USP14 inhibits ER-associated degradation via interaction with IRE1alpha.Nagai A., Kadowaki H., Maruyama T., Takeda K., Nishitoh H., Ichijo H.Biochem. Biophys. Res. Commun. 379:995-1000(2009)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only and is not intended for use in humans or animals.