

Product datasheet for TP329472

USP24 (NM_015306) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human ubiquitin specific peptidase 24 (USP24), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC229472 representing NM_015306 Red =Cloning site Green =Tags(s)

MESEEEQHMTTLLCMGFSDPATIRKALRLAKNDINEAVALLTNERPGLDYGGYEPMDSGGGPSPGPGGG
P
RGDGGGDGGGGGSPRGGSTGGGGGFDPPPAYHEVVDAAEKNDENGNCSEGEGIEFPTTNLYELESRLTDH
W
SIPYKREESLGKCLLASTYLARLGLSESDENCRRFMDRCMPEAFKLLTSSAVHKWGTEIHEGIYNMLML
LIELVAERIKQDPIPTGLLGVLTMFNPDNEYHFKNRMKVSQRNWAIEVFGEGNMFAVSPVSTFQKEPHG
W
VVDLVNKFGEELGGFAAIQAKLHSEDIELGAVSALIQLGVCAEYLNSSVVQPMLDPVILTTIQDVRVVEE
KDLKDKRLVSIPELLSAVKLLCMRFQPDVLTIVDDLRLDILLRMLKSPHFSAKMNSLKEVTKLIEDSTLS
KSVKNAIDTDRLLDWLVENSVLISIALEGNIDQAQYCDRIKGIIELLGSKLSDELTKIWKIQSGQSSTVI
ENIHTIIAAAANKFNSDQLNHLFVLIQKSWETESDRVRQKLLSLIGRIGREARFETTSQKVLVDVLWELAH
LPTLPSSLIQQAEEHLTILSDAYAVKEAIKRSYIIKICIEDIKRPGEWGSGLEKNKKDGFKSSQLNPNQFV
WVVPALRQLHEITRSFIKQTYQKQDKSIIQDLKKNFEIVKLVGTSLIACHRLAAAVAGPGLSGSTLVVG
RYTYREYLEAHLKFLAFFLQEATLYLGWNRKEIWECLVTGQDVCELDREMCFEWFTKGQHDLESDVQQQ
LFKEKILKLESYEITMNGFNLFKTFEENVNLCDHRLKRQGAQLYVEKLELIGMDFIWKIAMESPDEEIAN
EAIQLIINYSYINLNPRLKKDSVSLHKKFIADCYTRLEAASSALGGPTLTHAVTRATKMLTATAMPTVAT
SVQSPYRSTKLVIIERLLLLAERYVITIEDFYVSPRTILPHGASFHGHLLTLNVTYESTKDTFTVEAHSN
ETIGSVRWKIAKQLCSPVDNIQIFTNDSLLTVNKDQKLLHQLGFSDEQILTVKTSGSGTSPSGSSADSSTS
SSSSSSGVFSSSYAMEQEKSLPGVVMALVCNVFDMLYQLANLEEPRTLVRKLLLLLIPTDPAIQEALDQ
LDSLGRKKTLLSESSQSSKSPSLSSKQHQPSASSILESLFRSFAPGMSTFRVLYNLEVLSSKLMPTAD
DDMARSCAKSFCENFLKAGGLSLVNVMMQRDSIPSEVDYETRQGVYSICLQLARFLLVVGQTMPTLLDEDL
TKDGIEALSSRPFRNVSRQTSRQMSLCGTPEKSSYRQLSVSDRSSIRVEEIIIPAARVAIQTMEVSDFTST
VACFMRLSWAAAAGRLDLVGSSQPIKESNSLCPAGIRNRLSSSGSNCSGSEGEVALHAGICVRQQSVS
TKDSLIIAGEALSLLVLTCLQLRSQQLASFYNLPCVADFIIDILLGSPSAEIRRACDQLYTSLQTDTSVHP
DVQKPNQFLLGVILTAQLPLWSPTSIMRGVNRQLLSQCMYFDLRCQLLDDLTSEMELRISPATMLED
EITWLDNFEPNRTAECETSEADNILLAGHLRLIKTLLSLCGAEKEMLGSSLIKPLDDDFLFRASRIILNS



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HSPAGSAAISQQDFHPKCSTANSRLAAYEVLVMLADSSPSNLQIIKELLSMHHQPDPALTKEFDYLP
 DSRSSSGFVGLRNGGATCYMNAVFQQLYMQPGLPESLLSVDDDDTNPDDSVFYQVQSLFGHLMESKLQ
 YY
 VPENFWKIFKMWNKELYVREQQDAYEFFTSLIDQMDEYLKMKGRDQIFKNTFQGIYSDQKICKDCPHRYE
 REEAFMALNLGVTSCQSLEISLDQFVRGEVLEGSNAYYCEKCKEKRITVKRTCICKSLPSVLVIHLMRFGF
 DWESGRSIKYDEQIRFPWMLNMEPYTVSGMARQDSSSEVGENGRSVDQGGGGSPRKKVALTENYELVGV
 I
 VHSGQAHAGHYYSFIKDRRGCGKWKYKFNDTVIEEFDLNDETLEYECFGGEYRPKVYDQTNPYTDVRRR
 YWNAYMLFYQRVSDQNSPVLPKKSRVSVRQEAEDLSLSAPSSPEISPQSSPRPHRPNNDRLSILTKLVK
 KGEKKGLFVEKMPARIYQMVRDENLKFMKNRDVYSSDYFSFVLSLASLNATKLKHPYPCMAKVSLLQAI
 QFLFQTYLRTKKLRVDTEEWIATIEALLSKSFDACQWLVEYFISSEGRELIKIFLLECNVREVRVAVAT
 ILEKTLDSALFYQDKLKSLLHQLLEVLLALLDKDVPENCKNCAQYFFLNTFVQKQGIRAGDLLLLRHSALR
 HMISFLLGASRQNNQIRRWSSAQAREFGNLHNTVALLVLHSDVSSQRNVAPGIFKQRPPIASIAPSSPLLP
 LHEEVEALLFMSEGKPYLLEVMFALRELTGSLALIEMWVYCCFCNEHFSFTMLHFIKNQLETAPPHELK
 NTFQLLHEILVIEDPIQVERVKVFETENGLLALMHHSNHVDSSRCYQCVKFLVTLAQKCPAAKEYFKEN
 SHHWSWAVQWLQKKMSEHYWTPQSNVSNETSTGKTFQRTISAQDTLAYATALLNEKEQSGSSNGSESSP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

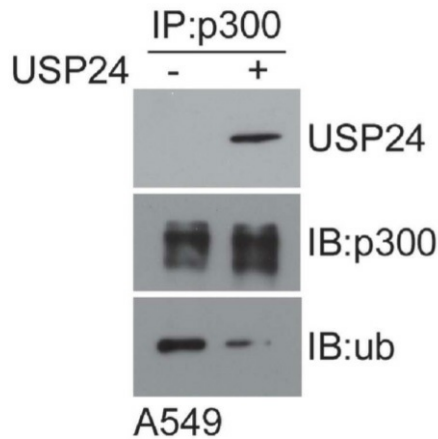
Tag:	C-Myc/DDK
Predicted MW:	294.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	In vitro deubiquitination assay (PMID: 27991932)
Preparation:	NULL or Add: Recombinant proteins was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_056121
Locus ID:	23358
UniProt ID:	Q9UPU5
Cytogenetics:	1p32.3
RefSeq ORF:	7860

Summary:

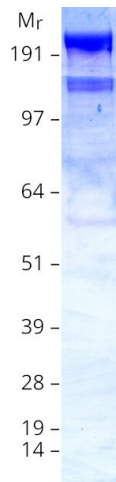
Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. USP24 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes (Quesada et al., 2004 [PubMed 14715245]).[supplied by OMIM, Mar 2008]

Protein Families:

Druggable Genome, Protease

Product images:


USP24 decreases the p300 ubiquitination. A549 cell lysates were immunoprecipitated with an anti-p300 antibody. IP samples were used to perform the in vitro deubiquitination assay with recombinant human USP24 (50 ug/ml) (OriGene TP329472) and USP24, p300. Ubiquitinated p300 levels were evaluated in Western blot with antibodies against the indicated proteins. Figure cited from Oncogene, PMID: 27991932



Coomassie blue staining of purified USP24 protein (Cat# TP329472). The protein was produced from HEK293T cells transfected with USP24 cDNA clone (Cat# [RC229472]) using MegaTran 2.0 (Cat# [TT210002]).