

Active Recombinant Full Length Human USP24 Protein, C-Flag-tagged

Cat. No. USP24-1162HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human USP24 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	In vitro deubiquitination assay
Molecular Mass	294.2 kDa
AA Sequence	MESEEEQHMTTLLCMGFSDPATIRKALRLAKNDINEAVALLTNERPGLDYGGYEPM DSGGGPPSPGPGGGP RGDGGGDGGGGGSPRGGSTGGGGGFDPPPAYHEVDAE KNDENGNCSEGEIEFPTTNLYELESRVLTDPHW SIPYKREESLGKCLLASTYLARLGL SESDENCRRFMDRCMPEAFKLLTSSAVHKWGTEIHEGIYNMLML LIELVAERIKQD PIPTGLLGVLTMAFNPDPNEYHFKNRMKVSQRNWAIEVFGEENMFVSPVSTFQKEP HGW VVDLVNKFGEELGGFAAIQAKLHSEDIELGAVSALIQLGVCAEYLNSSVVQPML

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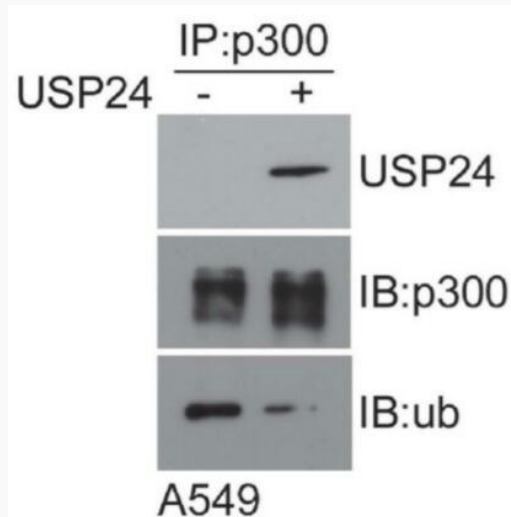
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QAQYCDRIKGIIELLGSKLSLDELTKIWKIQSGQSSTVI ENIHIIAAAAVKFNSDQLNH
LFVLIQKSWETESDRVRQKLLSLIGRIGREARFETTSGKVL DVLWELAH LPTLPSSLI
QQALEEHLTILSDAYAVKEAIKRSYIIKCIEDIKRPGEWSGLEKNKKDGFKSSQLNNPQ
FV WVPALRQLHEITRSFIKQTYQKQDKSIIQDLKKNFEIVKLVTGSLIACHRLAAAVA
GPGGLSGSTLVDG RYTYREYLEAHLKFLAFFLQEATLYLGWNR AKEIWECLVTGQD
VCELDREMCFEWFTKGQHDLES DVQQQ LFKEKILKLESYEITMNGFNLFKTF FENV
NLCDHRLKRQGAQLYVEKLELIGMDFIWKIAMESPDEEIAN EAIQLIINYSYINLNPR L
KKDSVSLHKKFIADCYTRLEAASSALGGPTLT HAVTRATKMLTATAMPTVAT SVQSP
YRSTKLVIIERLLLLAERYVITIEDFYSPR TILPHGASFHGHLLTLNVTYESTKDTFTVE
AHSN ETIGSVRWKIAKQLCSPVDNIQIFTNDSLLTVNKDQKLLHQLGFSDEQILT VKT
SGSGTPSGSSADSSTS SSSSSSGVFSSSYAMEQEKS LPGVVMALVCNVFDMLYQL
ANLEEPRITLRVRKLLLLIPTDPAIQEALDQ LDSLGRKKTLLSESSSQSSKSPSLSSKQ
QHQP SASSILES LFRSFAPGMSTFRVLYNLEVLSSKLMPTAD DDMARSCAKSFCEN
FLKAGGLSLVNVQMQRDSIPSEVDYETRQGVYSICLQLARFLLVGQTMPTLLDEDL T
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QTMEVSDFTST VACFMRLSWAAAAGRLDLVGSSQPIKESNSLCPAGIRNRLSSSGS
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CVADFIIDILLGSPSAEIRR VACDQLYTLSQTDTSAHP DVQKPNQFLLGVILTAQLPLW
SPTSIMRGVNQRLLSQCMEYFDLRCQLLDDLT TSEMEQLRISPATMLED EITWLDNF
EPNRTAECETSEADNILLAGHLRLIKTLLSLCGAEKEMLGSSSLIKPLLDDFLFRASRIIL
NS HSPAGSAAISQQDFHPK CSTANSRLAAYEVLVMLADSSPSNLQIIKELLSMHHQ
PDPALTKEFDYLPPV DSRSSSGFVGLRNGGATCYMNAV FQQLYMQPGLPESLLSV
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F DWESGRSIKYDEQIRFPWMLNMEPYTVSGMARQDSSSEVGENGRSVDQGGGG
SPRKKVALTENYELVGVI VHSGQAHA GHYYSFIKDRRGCGKGKWKYKFNDTVIEEFD
LNDETLEYECFGGEYRPKVYDQTNPYTDVRRR YWNAYMLFYQRVSDQNSPVLPPK

SRVSVVRQEAEDLSLSAPSSPEISPQSSPRPHRPNNDRLSILTKLVK KGEKKGLFVE
 KMPARIYQMVRDENLKFMKNRDVYSSDYFSFVLSLASLNATKLKHPYYPCMAKVSL
 QLAI QFLFQTYLRTKKKLRVDTEEWIATIEALLSKSFDACQWLVEYFISSEGRELKIFL
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 YFFLFNTFVQKQGIRAGDLLLRHSALR HMISFLLGASRQNNQIRRWSSAQAREFGN
 LHNTVALLVLHSDVSSQRNVAPGIFKQRPPISAPSSPLLP LHEEVEALLFMSEGKPY
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 LHEILVIEDPIQVERVVKFVFETENGLLALMHHSNHVDSSRCYQCVKFLVTLAQKCPAA
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 NENGDRHLQQGSESPMMIGELRSDLDDVDPTRTRPLEQKLISEEDLAANDILDYKDD
 DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Full Length	Full L.

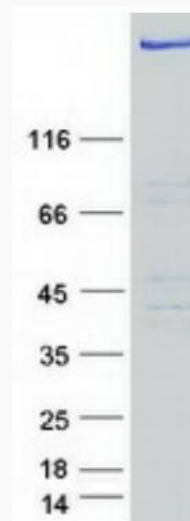
GENE INFORMATION

Gene Name	USP24 ubiquitin specific peptidase 24 [Homo sapiens (human)]
Official Symbol	USP24
Synonyms	FLJ31309; KIAA1057
Gene ID	23358
mRNA Refseq	NM_015306.3
Protein Refseq	NP_056121.2
MIM	610569
UniProt ID	Q9UPU5



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) and USP24, p300. Ubiquitinated p300 levels were evaluated in Western blot with antibodies against the indicated proteins.



Coomassie blue staining of purified USP24 protein.