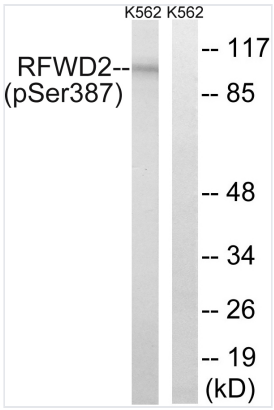
RFWD2 Antibody

PRODUCT OVERVIEW

Product Name	RFWD2, Antibody
Full Product Name	RFWD2 (Phospho-Ser387) Antibody
Product Gene Name	anti-RFWD2 antibody
Product Synonym Names	Constitutive photomorphogenesis protein 1 homolog; COP1; EC 6.3.2.-; hCOP1; RING finger and WD repeat domain protein 2; Ubiquitin-protein ligase COP1
Species Reactivity	Human, Mouse
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Specificity	RFWD2 (Phospho-Ser387) antibody detects endogenous levels of RFWD2 only when phosphorylated at serine 385.
Preparation and Storage	Store at-20 degree C for 1 year.
Molecular Weight	14,914 Da
OMIM	608067
3D Structure	ModBase 3D Structure for Q8NHY2
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human RFWD2 around the phosphorylation site of serine 385 (T-A-SP-Q-L).
All Sites	Human: Ser387 Mouse: Ser389
Product Categories/Family for anti-RFWD2 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RFWD2 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-RFWD2 antibody	WB: 1:500-1:1000 ELISA: 1:1000
Related Product Information for anti-RFWD2 antibody	MBS856464 is an antibody targeting RFWD2. Also known as RFWD2 (Phospho-Ser387) Antibody. Reactive in Human, Mouse.
Product References and Citations for anti-RFWD2 antibody	Yi C., BMC Cell Biol. 3:30-30(2002). Wertz I.E., Science 303:1371-1374(2004). Ota T., Nat. Genet. 36:40-45(2004).
Other Notes	Small volumes of anti-RFWD2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-RFWD2 antibody
Western blot analysis of extracts from K562 cells, treated with UV (15mins), using RFWD2 (Phospho-Ser387) antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RFWD2. It may not necessarily be applicable to this product.

NCBI GI #	50233824
NCBI GeneID	64326
NCBI Accession #	NP_001001740.1
UniProt Primary Accession #	Q8NHY2
UniProt Secondary Accession #	Q504W6; Q6H103; Q9H6L7; E9PKI0; X5D9B4
UniProt Related Accession #	Q8NHY2
GenBank Nucleotide #	NM_001001740.3
NCBI Official Full Name	E3 ubiquitin-protein ligase COP1 isoform b
NCBI Official Synonym Full Names	COP1, E3 ubiquitin ligase
NCBI Official Symbol	COP1
NCBI Official Synonym Symbols	RFWD2; RNF200
UniProt Protein Name	E3 ubiquitin-protein ligase COP1
UniProt Synonym Protein Names	Constitutive photomorphogenesis protein 1 homolog
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	COP1
UniProt Synonym Gene Names	hCOP1
NCBI Protein Information	E3 ubiquitin-protein ligase COP1; E3 ubiquitin-protein ligase RFWD2
UniProt Comments for RFWD2	E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins. E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Involved in JUN ubiquitination and degradation. Directly involved in p53 (TP53) ubiquitination and degradation, thereby abolishing p53-dependent transcription and apoptosis. Ubiquitinates p53 independently of MDM2 or RCHY1. Probably mediates E3 ubiquitin ligase activity by functioning as the essential RING domain subunit of larger E3 complexes. In contrast, it does not constitute the catalytic RING subunit in the DCX DET1-COP1 complex that negatively regulates JUN, the ubiquitin ligase activity being mediated by RBX1. Involved in 14-3-3 protein sigma/SFN ubiquitination and proteasomal degradation, leading to AKT activation and promotion of cell survival. Ubiquitinates MTA1 leading to its proteasomal degradation. Upon binding to TRIB1, ubiquitinates CEBPA, which lacks a canonical COP1-binding motif (Probable).

Research Articles on RFWD2	**1.** that COP1 may play a role in promoting glioma cell proliferation by interacting with and downregulating tumor suppressor p53 rather than oncogenic protein c-JUN
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