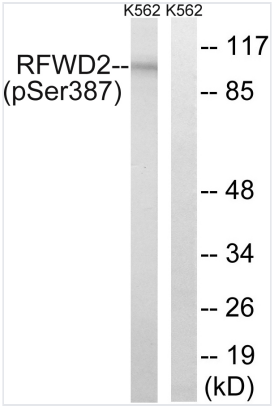
RFWD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RFWD2, Polyclonal Antibody
Full Product Name	RFWD2 (Phospho-Ser387) Antibody
Product Gene Name	anti-RFWD2 antibody
Product Synonym Names	Constitutive photomorphogenesis protein 1 homolog; COP1; hCOP1; RING finger and WD repeat domain protein 2; Ubiquitin- protein ligase COP1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Concentration	1 mg/ml (lot specific)
Specificity	RFWD2 (Phospho-Ser387) Antibody detects endogenous levels of RFWD2 only when phosphorylated at Ser387.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	80 kDa
OMIM	AF508940 mRNA
3D Structure	ModBase 3D Structure for Q8NHY2
Target Modification	Phospho
Modification Sites	H:S387; M:S389
Immunogen	The antiserum was produced against synthesized peptide derived from human RFWD2 around the phosphorylation site of Ser387.
Immunogen Range	353-402
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	MBS9503400 is an antibody targeting RFWD2. Also known as RFWD2 (Phospho-Ser387) Antibody. Reactive in Human, Mouse. Host: Rabbit.
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 lysates from K562 cells treated with UV 15', using RFWD2 (Phospho-Ser387) Antibody. The lane on the right is blocked with the phospho peptide.

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 RFWD2 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 RFWD2
UniProt Synonym Protein Names	Constitutive photomorphogenesis protein 1 homolog; hCOP1; RING finger and WD repeat domain protein 2; RING finger protein 200; RING-type E3 ubiquitin transferase RFWD2Curated
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	RFWD2
UniProt Synonym Gene Names	COP1; RNF200; hCOP1
NCBI Protein Information	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.** Authors demonstrate that mtp53 prevents the COP1/DET1 complex from ubiquitinating ETS2 and thereby marking it for destruction. Authors show that mtp53 destabilizes DET1 and also disrupts the DET1/ETS2 complex thereby preventing ETS2 degradation.
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