

Rabbit anti-Human RFWD3 Polyclonal Antibody | anti-RFWD3 antibody

RFWD3 Antibody

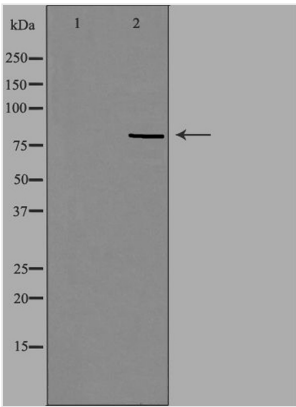
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325093	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

RFWD3; Polyclonal Antibody; RFWD3 Antibody; BC027246; E3 ubiquitin protein ligase RFWD3; E3 ubiquitin-protein ligase RFWD3; FLJ10520; MGC27888; RFWD3_HUMAN; Ring finger and WD repeat domain 3; RING finger and WD repeat domain containing protein 3; RING finger and WD repeat domain-containing protein 3; RING finger protein 201; RNF201; anti-RFWD3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	RFWD3 antibody detects endogenous levels of total RFWD3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	774
Applicable Applications for anti-RFWD3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
Tissue Specificity	Up-regulated in the S-G2 phase.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)

Western blot analysis of extracts from MCF-7 cells, using RFWD3 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA325093 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RFWD3 antibody

Function: E3 ubiquitin-protein ligase required for the repair of DNA interstrand cross-links (ICL) in response to DNA damage (PubMed:21504906, PubMed:21558276, PubMed:26474068, PubMed:28575657, PubMed:28575658). Plays a key role in RPA-mediated DNA damage signaling and repair (PubMed:21504906, PubMed:21558276, PubMed:26474068, PubMed:28575657, PubMed:28575658). Acts by mediating ubiquitination of the RPA complex (RPA1, RPA2 and RPA3 subunits) and RAD51 at stalled replication forks, leading to remove them from DNA damage sites and promote homologous recombination (PubMed:26474068, PubMed:28575657, PubMed:28575658). Also mediates the ubiquitination of p53/TP53 in the late response to DNA damage, and acts as a positive regulator of p53/TP53 stability, thereby regulating the G1/S DNA damage checkpoint (PubMed:20173098). May act by catalyzing the formation of short polyubiquitin chains on p53/TP53 that are not targeted to the proteasome (PubMed:20173098). In response to ionizing radiation, interacts with MDM2 and enhances p53/TP53 ubiquitination, possibly by restricting MDM2 from extending polyubiquitin chains on ubiquitinated p53/TP53 (PubMed:20173098).

Subunit Structure: Interacts with MDM2 and p53/TP53 (PubMed:20173098). Binds to the RPA complex via direct interaction with RPA2 (PubMed:21504906, PubMed:21558276, PubMed:26474068, PubMed:28575658). Interacts with RAD51 (PubMed:28575658).

Post-translational Modifications: Phosphorylated at Ser-46 and Ser-63 upon DNA damage by ATM or ATR. ATM phosphorylation occurs at early times upon DNA damage, while ATR is the major kinase at later times. Phosphorylation by ATM and ATR is required to stabilize p53/TP53. Part of the phosphorylation depends upon RPA2 presence.

Similarity: The coiled coil domain may be involved in RPA2-binding.

NCBI AND UNIPROT INFORMATION

NCBI GI #	71143112
NCBI GeneID	55159
NCBI Accession #	NP_060594.3
NCBI GenBank Nucleotide #	NM_018124.3
UniProt Accession #	Q6PCD5; Q5XKR3; Q9H9Q3; Q9NVT4; A8K585; B2RE35; D3DUJ8
Molecular Weight	Observed: 85 kD Predicted: 86 kDa
NCBI Official Full Name	E3 ubiquitin-protein ligase RFWD3
NCBI Official Synonym Full Names	ring finger and WD repeat domain 3
NCBI Official Symbol	RFWD3

NCBI Official Synonym Symbols	FANCW; RNF201
NCBI Protein Information	E3 ubiquitin-protein ligase RFWD3
UniProt Protein Name	E3 ubiquitin-protein ligase RFWD3
UniProt Gene Name	RFWD3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rwd3-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325093>