

Rabbit FBXW7 Polyclonal Antibody | anti-FBXW7 antibody

FBXW7 Antibody

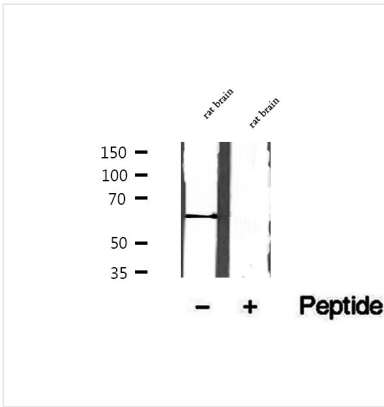
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323224	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

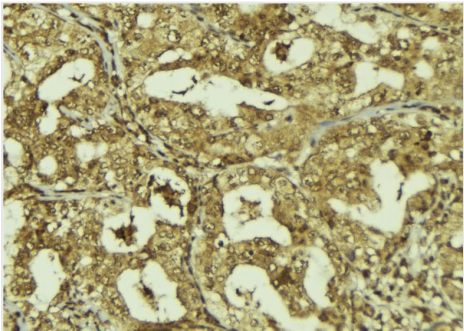
FBXW7; Polyclonal Antibody; FBXW7 Antibody; AGO; Archipelago; Archipelago homolog; Drosophila; homolog of; CDC4; S.cerevisiae; DKFZp686F23254; F box and WD 40 domain protein 7 (archipelago homolog; Drosophila); F box and WD 40 domain protein 7; F box and WD repeat domain containing 7; F box protein FBW7; F box protein FBX30; F box protein SEL 10; F box protein SEL10; F-box and WD repeat domain containing 7; E3 ubiquitin protein ligase; F-box and WD-40 domain-containing protein 7; F-box protein FBX30; F-box/WD repeat-containing protein 7; FBW6; FBW7; FBX30; FBXO30; FBXW6; FBXW7_HUMAN; FLJ16457; hAgo; hCdc4; Homolog of C elegans sel 10; Homolog of C.elegans sel10; SEL 10; SEL-10; SEL10; anti-FBXW7 antibody

PRODUCT SPECIFICATIONS

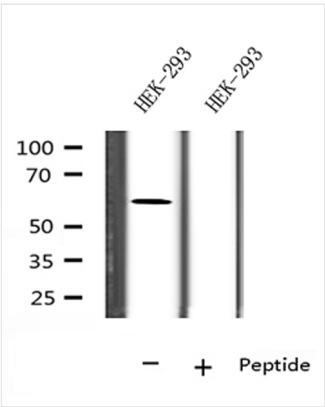
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	FBXW7 antibody detects endogenous levels of FBXW7.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	589
Applicable Applications for anti-FBXW7 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FBXW7.
Subcellular Location	Cytoplasm; Nucleus; Nucleus > Nucleolus and Nucleus > Nucleoplasm.
Tissue Specificity	Isoform 1 is widely expressed. Isoform 3 is expressed in brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
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 of rat brain tissue, using FBXW7 antibody.



IHC (Immunohistochemistry)
AAA323224 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis on HEK-293 cell lysate using FBXW7 Antibody

ADDITIONAL INFORMATION

Related Product Information for anti-FBXW7 antibody	Function: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Recognizes and binds phosphorylated sites/phosphodegrons within target proteins and thereafter bring them to the SCF complex for ubiquitination (PubMed:17434132). Identified substrates include cyclin-E (CCNE1 or CCNE2), JUN, MYC, NOTCH1 released notch intracellular domain (NICD), NOTCH2, and probably PSEN1 (PubMed:11565034, PubMed:12354302, PubMed:11585921, PubMed:15103331, PubMed:14739463, PubMed:17558397, PubMed:17873522, PubMed:22608923, PubMed:29149593, PubMed:25775507). Acts as a negative regulator of JNK signaling by binding to phosphorylated JUN and promoting its ubiquitination and subsequent degradation (PubMed:14739463). SCF(FBXW7) complex mediates the ubiquitination and subsequent degradation of NFE2L1 (By similarity). Involved in bone homeostasis and negative regulation of osteoclast differentiation (PubMed:29149593). Subunit Structure: Homodimer; homodimerization plays a role in substrate binding and/or ubiquitination and degradation (PubMed:22608923, PubMed:17434132). Component of the SCF(FBXW7) complex consisting of CUL1, RBX1, SKP1 and FBXW7. Interacts with PSEN1, cyclin-E (CCNE1 or CCNE2), NOTCH1 intracellular domain/NICD, NOTCH4 intracellular domain/NICD and SKP1. Interacts with MYC (when phosphorylated) (PubMed:17873522, PubMed:25775507). Isoform 1 interacts with USP28, leading to counteract ubiquitination of MYC (PubMed:17873522). Isoform 3 interacts (via WD repeats) with SV40 large T antigen (via CPD region). Forms a trimeric complex with NOTCH1 and SGK1. Interacts with JUN (PubMed:14739463, PubMed:22608923). Found in a complex with JUN and PRR7 (PubMed:27458189). Interacts with JUN and PRR7; the interaction inhibits ubiquitination-mediated JUN degradation promoting its phosphorylation and transcriptional activity (PubMed:27458189). Interacts (when phosphorylated at Thr-205) with PIN1, leading to disrupt FBXW7 dimerization and promoting FBXW7 autoubiquitination and degradation (PubMed:22608923). Interacts with UBE2QL1 (PubMed:24000165). Interacts with FAM83D; promotes FBXW7 degradation (PubMed:24344117). Interacts with MYCN; FBXW7 competes with AURKA for binding to unphosphorylated MYCN but not for binding to phosphorylated MYCN (PubMed:27837025). Isoform 3 interacts with STOML1 (PubMed:23082202). Interacts with NFE2L1 (By similarity). Interacts with NOTCH2 intracellular domain (N2ICD) (PubMed:29149593). Isoform 3 interacts with USP36, leading to counteract ubiquitination of MYC (PubMed:25775507). Post-translational Modifications: Phosphorylation at Thr-205 promotes interaction with PIN1, leading to disrupt FBXW7 dimerization and promoting FBXW7 autoubiquitination and degradation (PubMed:22608923). Ubiquitinated: autoubiquitinates following phosphorylation at Thr-205 and subsequent interaction with PIN1. Ubiquitination leads to its degradation (PubMed:22608923). Similarity: The WD repeats mediate interaction with substrates of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex. The F-box domain mediates interaction with SKP1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	61743926
NCBI GeneID	55294
NCBI Accession #	NP_001013433.1
NCBI GenBank Nucleotide #	NM_001013415.2
UniProt Accession #	Q969H0; Q68DR0; Q96A16; Q96LE0; Q96RI2; Q9NUX6; B7ZLP9
Molecular Weight	Observed: 60-65 kDa Predicted: 80 kDa
NCBI Official Full Name	F-box/WD repeat-containing protein 7 isoform 3
NCBI Official Synonym Full Names	F-box and WD repeat domain containing 7
NCBI Official Symbol	FBXW7
NCBI Official Synonym Symbols	AGO; CDC4; FBW6; FBW7; hAgo; FBX30; FBXW6; SEL10; hCdc4; FBXO30; SEL-10
NCBI Protein Information	F-box/WD repeat-containing protein 7
UniProt Protein Name	F-box/WD repeat-containing protein 7
UniProt Gene Name	FBXW7
UniProt Synonym Gene Names	hAgo1 PublicationManual assertion based on opinion iniRef.2

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/fbxw7-antibody-immunohistochemistry-western-blot-elisa/323224>