10320 Camino Santa Fe, Suite G
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Fbxw7 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI11220

Specification

Fbxw7 antibody - middle region - Product Information

Application	**IHC, WB**
Primary Accession	Q8VBV4
Other Accession	NM_080428, NP_536353
Reactivity	**Human, Mouse, Rat, Rabbit, Zebrafish, Horse, Bovine, Dog**
Predicted	**Human, Mouse, Rabbit, Zebrafish, Chicken, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**70kDa KDa**

Fbxw7 antibody - middle region - Additional Information

Gene ID 50754

Alias Symbol	**1110001A17Rik, AGO, Cdc4, Fbw7, Fbwd6, Fbx30, Fbxo30, Fbxw6, SEL-10**

Other Names
F-box/WD repeat-containing protein 7, F-box and WD-40 domain-containing protein 7 {ECO:0000312|MGI:MGI:1354695}, F-box protein FBW7, F-box protein Fbxw6, F-box-WD40 repeat protein 6, SEL-10, Fbxw7 {ECO:0000312|MGI:MGI:1354695}

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-Fbxw7 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
Fbxw7 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Fbxw7 antibody - middle region - Protein Information

Name Fbxw7 {ECO:0000312|MGI:MGI:1354695}

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 (PubMed:21953459, PubMed:<a href="http://www.uniprot.org/citations/22748924"

target="_blank">22748924). Recognizes and binds phosphorylated sites/phosphodegrons within target proteins and thereafter brings them to the SCF complex for ubiquitination (PubMed:22748924). Mediates ubiquitination and subsequent degradation of CCNE1 and MYC (PubMed:22748924). Identified substrates include cyclin-E (CCNE1 or CCNE2), DISC1, JUN, MYC, NOTCH1 released notch intracellular domain (NICD), NOTCH2, MCL1, MLST8, RICTOR and probably PSEN1 (By similarity). Acts as a negative regulator of JNK signaling by binding to phosphorylated JUN and promoting its ubiquitination and subsequent degradation (By similarity). SCF(FBXW7) complex mediates the ubiquitination and subsequent degradation of NFE2L1 (PubMed:21953459). Involved in bone homeostasis and negative regulation of osteoclast differentiation (PubMed:29149593). Regulates the amplitude of the cyclic expression of hepatic core clock genes and genes involved in lipid and glucose metabolism via ubiquitination and proteasomal degradation of their transcriptional repressor NR1D1; CDK1-dependent phosphorylation of NR1D1 is necessary for SCF(FBXW7)-mediated ubiquitination (PubMed:27238018). Also able to promote 'Lys-63'-linked ubiquitination in response to DNA damage (By similarity). The SCF(FBXW7) complex facilitates double-strand break repair following phosphorylation by ATM: phosphorylation promotes localization to sites of double-strand breaks and 'Lys-63'-linked ubiquitination of phosphorylated XRCC4, enhancing DNA non-homologous end joining (By similarity).

Cellular Location
Nucleus, nucleoplasm. Chromosome {ECO:0000250|UniProtKB:Q969H0}. Note=Localizes to site of double-strand breaks following phosphorylation by ATM {ECO:0000250|UniProtKB:Q969H0}

Tissue Location
Widely expressed with highest levels in brain, heart and testis.

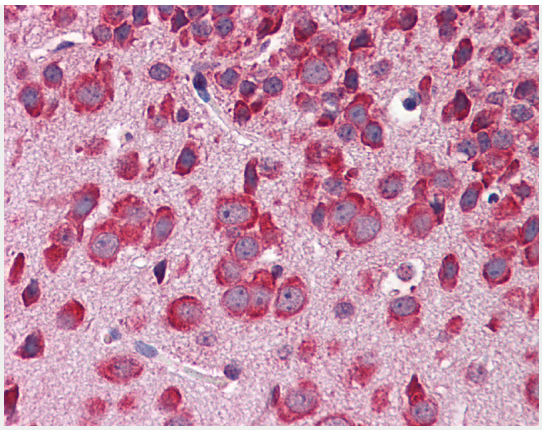
Fbxw7 antibody - middle region - Protocols

Provided below are standard protocols that you may find useful for product applications.

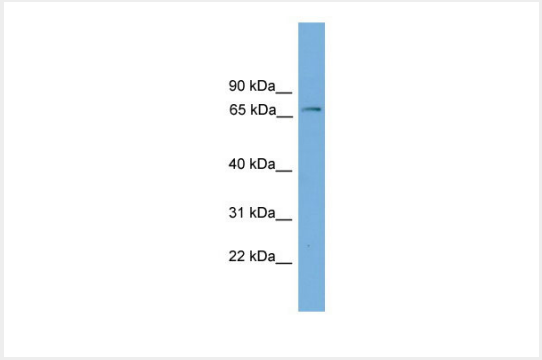
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Fbxw7 antibody - middle region - Images

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Mouse Brain



WB Suggested Anti-Fbxw7 Antibody Titration: 0.2-1 µg/ml
Positive Control: Mouse Lung