# FBXW7 Rabbit pAb

CatalogNo: YN6055

## Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB

MW
- 78kD (Calculated)

Isotype
- IgG

## Recommended Dilution Ratios

**WB 1:500-2000**

## Storage

| | |
|---|---|
| **Storage*** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |

## Basic Information

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|---|---|
| **Clonality** | Polyclonal |

## Immunogen Information

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|---|---|
| **Immunogen** | Synthesized peptide derived from human FBXW7 |
| **Specificity** | This antibody detects endogenous levels of FBXW7 at Human, Mouse |

## Target Information

| | |
|---|---|
| **Gene name** | FBXW7 FBW7 FBX30 SEL10 |

**Protein Name** F-box/WD repeat-containing protein 7 (Archipelago homolog) (hAgo) (F-box and WD-40 domain-containing protein 7) (F-box protein FBX30) (SEL-10) (hCdc4)

| Organism | Gene ID | UniProt ID |
|---|---|---|
| Human | 55294; | Q969H0; |
| Mouse | 50754; | Q8VBV4; |

**Cellular Localization** [Isoform 1]: Nucleus, nucleoplasm . Chromosome . Localizes to site of double-strand breaks following phosphorylation by ATM. .; [Isoform 2]: Cytoplasm .; [Isoform 3]: Nucleus, nucleolus .

**Tissue specificity** [Isoform 1]: Widely expressed. ; [Isoform 3]: Expressed in brain.

**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 brings them to the SCF complex for ubiquitination . Identified substrates include cyclin-E (CCNE1 or CCNE2), DISC1, JUN, MYC, NOTCH1 released notch intracellular domain (NICD), NFE2L1, NOTCH2, MCL1, RICTOR, and probably PSEN1 . Acts as a negative regulator of JNK signaling by binding to phosphorylated JUN and promoting its ubiquitination and subsequent degradation . Involved in bone homeostasis and negative regulation of osteoclast differentiation . 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 . Also able to promote 'Lys-63'-linked ubiquitination in response to DNA damage . 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 .

## Validation Data

## Contact information


Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: http://www.immunoway.com.cn
Address: 2200 Ringwood Ave San Jose, CA 95131 USA


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