

## 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

**Clonality** Polyclonal

### Immunogen Information

**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

<b>Protein Name</b>	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)		
	<b>Organism</b>	<b>Gene ID</b>	<b>UniProt ID</b>
	Human	<a href="#">55294;</a>	<a href="#">Q969H0;</a>
	Mouse	<a href="#">50754;</a>	<a href="#">Q8VBV4;</a>
<b>Cellular Localization</b>	[Isoform 1]: Nucleus, nucleoplasm . Chromosome . Localizes to site of double-strand breaks following phosphorylation by ATM. .; [Isoform 2]: Cytoplasm .; [Isoform 3]: Nucleus, nucleolus .		
<b>Tissue specificity</b>	[Isoform 1]: Widely expressed. .; [Isoform 3]: Expressed in brain.		
<b>Function</b>	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

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