SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-CDC4/AF647 Conjugated antibody

Catalog Number: SL5996R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CDC4/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human CDC4/FBW7/SEL10
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 Flow-Cyt=1ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse)
Background:	background: Fbw7 is a member of the F box protein family which are characterized by an approximately 40 amino acid motif, the F box. The F box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F box), which function in phosphorylation-dependent ubiquitination. The F box proteins are divided into 3 classes: Fbws containing WD40 domains, Fbls containing leucine rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. Fbw7 belongs to the Fbws class; in addition to an F box, this protein contains 7 tandem WD40 repeats. It binds directly to cyclin E and probably targets cyclin E for ubiquitin mediated degradation. Mutations of this gene are detected in ovarian and breast cancer cell lines. Alternative splicing of this gene generates 2 transcript variants diverging at the 5' termini.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	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. Probably recognizes and binds to phosphorylated target proteins. Involved in the degradation of cyclin-E, MYC, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1. **Subunit:** Component of the SCF(FBXW7) complex consisting of CUL1, RBX1, SKP1 and FBXW7. Interacts with PSEN1, cyclin E, NOTCH1 NICD, NOTCH4 NICD and SKP1. Interacts with MYC (when phosphorylated). Isoform 1 interacts with USP28, leading to counteract ubiquitination of MYC. Isoform 4 interacts (via WD repeats) with SV40 large T antigen (via CPD region). Forms a trimeric complex with NOTCH1 and SGK1. **Subcellular Location:** Isoform 1: Nucleus, nucleoplasm. Isoform 2: Cytoplasm. Isoform 4: Nucleus, nucleolus. Nucleus. **Tissue Specificity:** Isoform 1 is widely expressed. Isoform 4 is expressed in brain. **Post-translational modifications:** Phosphorylated upon DNA damage, probably by ATM or ATR. **Similarity:** Contains 1 F-box domain. Contains 7 WD repeats. **Database links:** **Entrez Gene:** 55294 Human **Entrez Gene:** 50754 Mouse Omim: 606278 Human **SwissProt:** Q969H0 Human **SwissProt:** Q8VBV4 Mouse **Unigene:** 561245 Human **Unigene:** 196475 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.