

# Anti-FBW7 [FBOX 3a9/1]

**Catalogue number:** 151461

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:**

**Institute:** Cancer Research UK, London Research Institute: Lincoln's Inn Fields

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-FBW7 [FBOX 3a9/1]

**Alternate name:** F-Box And WD Repeat Domain Containing 7; F-Box Protein FBX3; SEL-1; Fbx3; HCdc4; FBW7; Hago; Homolog Of C Elegans Sel-1; F-Box Protein SEL-1; Archipelago Homolog; F-Box Protein FBW7; Archipelago; FBXO3; FBXW6; CDC4; FBW6; AGO

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** SCF (Skp, Cullin, F-box containing complex) ubiquitin ligases regulate the degradation of many proteins involved in the control of cell division and growth. F-box proteins are the SCF components that bind to substrates, and this binding is usually signaled by substrate phosphorylation. The FBW7/Cdc4 F-box protein was first recognized by its ability to bind cyclin E, and the SCF (FBW7) is now known to target c-Myc, c-Jun and Notch for degradation in addition to its role in cyclin E proteolysis. FBW7 thus negatively regulates several key oncoproteins. Accordingly, FBW7 is a tumor suppressor that is mutated in a wide spectrum of human cancers, and FBW7 functions as a haplo-insufficient tumor suppressor in mice.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1

**Reactivity:** Human ; Mouse

**Selectivity:**

**Host:** Mouse

**Immunogen:** Synthetic peptide of human sequence

**Immunogen UNIPROT ID:**

**Sequence:**  
**Growth properties:**  
**Production details:**  
**Formulation:**  
**Recommended controls:**  
**Bacterial resistance:**  
**Selectable markers:**  
**Additional notes:**

## Target details

**Target:** F-box/WD repeat-containing protein 7 (FBW7, Cdc4)

**Target alternate names:**

**Target background:** SCF (Skp, Cullin, F-box containing complex) ubiquitin ligases regulate the degradation of many proteins involved in the control of cell division and growth. F-box proteins are the SCF components that bind to substrates, and this binding is usually signaled by substrate phosphorylation. The FBW7/Cdc4 F-box protein was first recognized by its ability to bind cyclin E, and the SCF (FBW7) is now known to target c-Myc, c-Jun and Notch for degradation in addition to its role in cyclin E proteolysis. FBW7 thus negatively regulates several key oncoproteins. Accordingly, FBW7 is a tumor suppressor that is mutated in a wide spectrum of human cancers, and FBW7 functions as a haplo-insufficient tumor suppressor in mice.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** FACS ; IHC ; IF ; IP ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:**

-15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Kanu et al. 2007. EMBO J. 26(12):2933-41. PMID: 17525732. ; ATMIN defines an NBS1-independent pathway of ATM signalling.

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