

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FBXW7/Cdc4 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 800201
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human FBXW7/Cdc4 Lys377-Lys707 Accession # Q969H0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

F-box/WD repeat-containing protein 7 (FBXW7), also known as SEL10, CDC4, and AGO, is an approximately 110 kDa protein that functions as a substrate recognition component in SCF E3 ubiquitin-protein ligase complexes. FBXW7-containing complexes also contain CUL1, RBX1, and SKP1 and are responsible for the targeting of multiple proteins involved in cell cycle activation. It plays an important role during embryonic development, in the maintenance of neural, oligodendrocyte, and hematopoietic progenitor cells, and in hepatocyte and adipocyte differentiation. FBXW7 is downregulated or mutated in a variety of cancers. FBXW7 contains one F-box domain (aa 278-324) and seven tandem WD repeats (aa 378-659). Alternative splicing generates additional isoforms of human FBXW7 that have deletions and/or substitutions of the N-terminal 167 amino acids. Within aa 377-707, human FBXW7 shares 99.7% and 88% aa sequence identity with mouse and rat FBXW7, respectively.

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