

Datasheet

FBXW7 monoclonal antibody (M02), clone 3D1

Catalog Number: H00055294-M02

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant FBXW7.

Clone Name: 3D1

Immunogen: FBXW7 (NP_361014, 599 a.a. ~ 707 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

ADSTVKIWDIKTGQCLQTLQGPNKHQSAVTCLOFNKN
FVITSSDDGTVKLWDLKTGEFIRNLVTLESGSGGGVV
WRIRASNTKLVCAVGSRRNGTEETKLLVLDLFDVDMK

Host: Mouse

Reactivity: Human

Applications: ELISA, IHC-P, S-ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 55294

Gene Symbol: FBXW7

Gene Alias: AGO, CDC4, DKFZp686F23254, FBW6, FBW7, FBX30, FBXO30, FBXW6, FLJ16457, SEL-10, SEL10

Gene Summary: This gene encodes a member of the F-box protein family which is 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 WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene was previously referred to as FBX30, and belongs to the Fbws class; in addition to an F-box, this protein contains 7 tandem WD40 repeats. This protein binds directly to cyclin E and probably targets cyclin E for ubiquitin-mediated degradation. Mutations in this gene are detected in ovarian and breast cancer cell lines, implicating the gene's potential role in the pathogenesis of human cancers. Three transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq]

References:

1. F-box protein FBXW7 inhibits cancer metastasis in a non-cell-autonomous manner. Yumimoto K, Akiyoshi S, Ueo H, Sagara Y, Onoyama I, Ueo H, Ohno S, Mori M, Mimori K, Nakayama KI J Clin Invest. 2015 Jan 2. pii: 78782. doi: 10.1172/JCI78782.
2. FBXW7 as a predictor of outcomes in ovarian cancer. Dickson EL, Vogel R, Leung S, Chow C, Huntsman D, Gilks B, Subramanian S. Journal of the American College of Surgeons Volume 217, Issue 3, Supplement, September 2013, Pages S72-73
3. Genomic and molecular characterization of esophageal squamous cell carcinoma. Lin DC, Hao JJ, Nagata Y, Xu L, Shang L, Meng X, Sato Y, Okuno Y, Varela AM, Ding LW, Garg M, Liu LZ, Yang H, Yin D, Shi ZZ, Jiang YY, Gu WY, Gong T, Zhang Y, Xu X, Kalid O, Shacham S, Ogawa S, Wang MR, Koeffler HP Nat Genet. 2014 May;46(5):467-73. doi: 10.1038/ng.2935. Epub 2014 Mar 30.