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FBXW7 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant FBXW7.
Catalog # AT2023a

Product Information

Application	WB, IHC, E
Primary Accession	Q969H0
Other Accession	NM_033632
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3D1
Calculated MW	79663

Additional Information

Gene ID	55294
Other Names	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, FBXW7, FBW7, FBX30, SEL10
Target/Specificity	FBXW7 (NP_361014, 599 a.a. ~ 707 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FBXW7 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

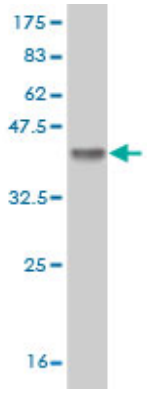
This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. 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.

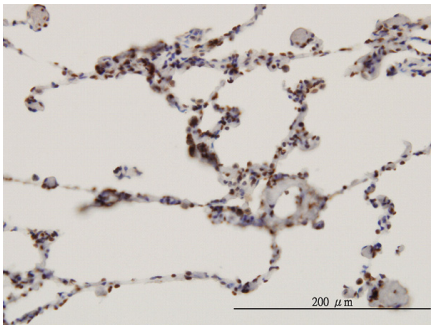
References

1.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 S72-732.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 HPNat Genet. 2014 May;46(5):467-73. doi: 10.1038/ng.2935. Epub 2014 Mar 30.3.FBXW7 Mediates Chemotherapeutic Sensitivity and Prognosis in NSCLC.Yokobori T, Yokoyama Y, Mogi A, Endoh H, Altan B, Kosaka T, Yamaki E, Yajima T, Tomizawa K, Azuma Y, Onozato R, Miyazaki T, Tanaka S, Kuwano HMol Cancer Res. 2013 Oct 28.4.Structural Basis for a Reciprocal Regulation between SCF and CSN.Enchev RI, Scott DC, da Fonseca PC, Schreiber A, Monda JK, Schulman BA, Peter M, Morris EP.Cell Rep. 2012 Sep 5.

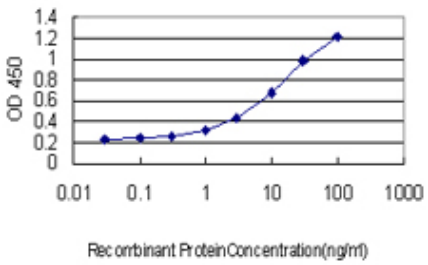
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.73 KDa) .



Immunoperoxidase of monoclonal antibody to FBXW7 on formalin-fixed paraffin-embedded human lung. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged FBXW7 is approximately 0.1ng/ml as a capture antibody.