

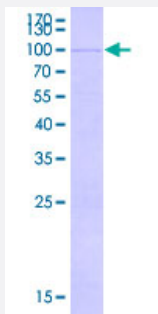
Full-Length

FBXW7 (Human) Recombinant Protein (P01)

Catalog # H00055294-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human FBXW7 full-length ORF (BAA91986.1, 1 a.a. - 553 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MGFYGLKMFYKMKRKLDHGSEVRSFSLGKKPCKVSEYTSTTGLVPCSATPTTFGDLRAANGQG
QRRRITSVQPPTGLQEWLKMFQSWGPEKLLALDELIDSEPTQVKHMMQVIEPQFQRDFISLL
PKELALYVLSFLEPKDLLQAAQTCRYWRILAEDNLLWREKCKEEGIDEPLHIKRRKVIKPGFIHSPW
KSA YIRQHRIDTNWRRGELKSPKVLKGHDDHVITCLQFCGNRVSGSDDNTLKVWSAVTGKCLRTL
VGHTGGVWSSQMRDNIISGSTDRTLKVWNAETGECIHTLYGHTSTVRCMHLHEKRVVSGSRDAT
LRVWDIETGQCLHVLGMHVAAVRCVQYDGRRVVSGAYDFMVKVWDPETETCLHTLQGHTNRVY
SLQFDGIHVVSGLDTSIRVWDVETGNCIHTLTGHQSLTSGMELKDNLVSGNADSTVKIWDIKTGQ
CLQTLQGPKNKHQSAVTCLQFNKNFVITSSDDGTVKLWDLKTGEFIRNLVTLESGSGGVVWRIRA
SNTKLVCAGSRNGTEETKLLVLDFDVK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

88.7

Interspecies Antigen Sequence

Mouse (99)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — FBXW7

Entrez GeneID	55294
GeneBank Accession#	AK001933.1
Protein Accession#	BAA91986.1
Gene Name	FBXW7
Gene Alias	AGO, CDC4, DKFZp686F23254, FBW6, FBW7, FBX30, FBXO30, FBXW6, FLJ16457, SEL-10, SEL10
Gene Description	F-box and WD repeat domain containing 7
Omim ID	606278
Gene Ontology	Hyperlink

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]

Other Designations

F-box and WD-40 domain protein 7 (archipelago homolog, Drosophila)|F-box protein FBW7|F-box protein SEL-10|archipelago homolog|archipelago, Drosophila, homolog of|homolog of C elegans sel-10

Publication Reference

- [An engineered platform for reconstituting functional multisubunit SCF E3 ligase in vitro.](#)

Huihui Liu, Simiao Liu, Hong Yu, Xiahe Huang, Yingchun Wang, Liang Jiang, Xiangbing Meng, Guifu Liu, Mingjiang Chen, Yanhui Jing, Feifei Yu, Bing Wang, Jiayang Li.

Molecular Plant 2022 Aug; 15(8):1285.

Application: enzyme reconstitution, Human, E3 ligase

- [The pseudophosphatase STYX targets the F-box of FBXW7 and inhibits SCFFBXW7 function.](#)

Reiterer V, Figueras-Puig C, Le Guerroue F, Confalonieri S, Vecchi M, Jalapothu D, Kanse SM, Deshaies RJ, Di Fiore PP, Behrends C, Farhan H.

The EMBO Journal 2016 Dec; 36(3):260.

Application: PI, WB, Recombinant protein

Pathway

- [Ubiquitin mediated proteolysis](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Disease Progression](#)

- [Genetic Predisposition to Disease](#)
- [Kidney Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Precursor T-Cell Lymphoblastic Leukemia-Lymphoma](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)
- [Wilms Tumor](#)