

FBXO2 Antibody (C-term)

Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10212b-400 □

Specification

FBXO2 Antibody (C-term) - Product info

Application	FC, WB
Primary Accession	Q9UK22
Other Accession	Q80UW2 , NP_036300.2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Names	RB24595

FBXO2 Antibody (C-term) - Additional info

Other Names

F-box only protein 2, FBXO2, FBX2

Target/Specificity

This FBXO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 244-271 amino acids from the C-terminal region of human FBXO2.

Dilution

FC~~1:10~50

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FBXO2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

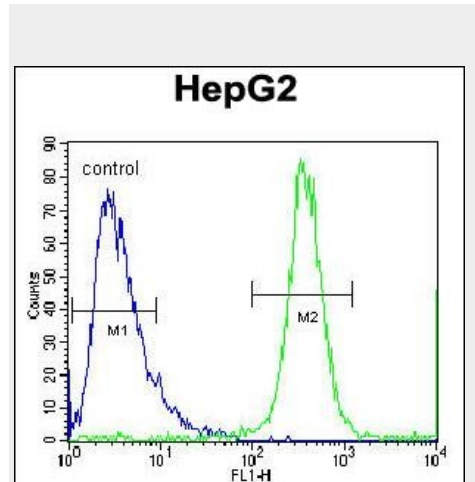
FBXO2 Antibody (C-term) - Protein Information

Name FBXO2

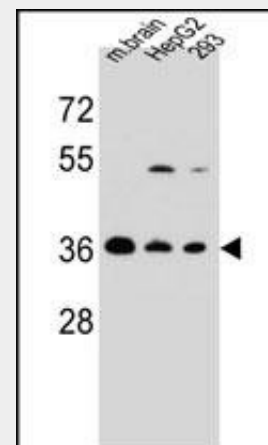
Synonyms FBX2

Function

Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex that mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Involved in the endoplasmic reticulum-associated degradation pathway (ERAD) for misfolded luminal proteins by recognizing and binding sugar chains on unfolded glycoproteins that are retrotranslocated



FBXO2 Antibody (C-term) (Cat. #AP10212b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



FBXO2 Antibody (C-term) (Cat. #AP10212b) western blot analysis in mouse brain tissue and HepG2, 293 cell line lysates (35ug/lane). This demonstrates the FBXO2 antibody detected the FBXO2 protein (arrow).

into the cytosol and promoting their ubiquitination and subsequent degradation. Prevents formation of cytosolic aggregates of unfolded glycoproteins that have been retrotranslocated into the cytosol. Able to recognize and bind denatured glycoproteins, preferentially those of the high-mannose type (By similarity).

Cellular Location

Cytoplasm. Microsome membrane; Peripheral membrane protein; Cytoplasmic side EMBL; AF187318; AAF01822.1; -; mRNA EMBL; CR542110; CAG46907.1; -; mRNA EMBL; AK313019; BAG35854.1; -; mRNA EMBL; AL031731; -; NOT_ANNOTATED_CDS; Genomic_DNA EMBL; CH471130; EAW71689.1; -; Genomic_DNA EMBL; BC025233; AAH25233.1; -; mRNA EMBL; BC096747; AAH96747.1; -; mRNA EMBL; AF174594; AAF04515.1; -; mRNA CCDS; CCDS130.1; - RefSeq; NP_036300.2; NM_012168.5 UniGene; Hs.132753; - UniGene; Hs.556006; - ProteinModelPortal; Q9UK22; - SMR; Q9UK22; - BioGrid; 117623; 54 IntAct; Q9UK22; 8 STRING; 9606.ENSP00000346240; - iPTMnet; Q9UK22; - PhosphoSitePlus; Q9UK22; - BioMuta; FBXO2; - DMDM; 51338836; - EPD; Q9UK22; - jPOST; Q9UK22; - MaxQB; Q9UK22; - PaxDb; Q9UK22; - PeptideAtlas; Q9UK22; - PRIDE; Q9UK22; - ProteomicsDB; 84707; - DNASU; 26232; - Ensembl; ENST00000354287; ENSP00000346240; ENSG00000116661 GeneID; 26232; - KEGG; hsa:26232; - UCSC; uc001asj.4; human CTD; 26232; - DisGeNET; 26232; - EuPathDB; HostDB:ENSG00000116661.9; - GeneCards; FBXO2; - HGNC; HGNC:13581; FBXO2 HPA; HPA005472; - MIM; 607112; gene neXtProt; NX_Q9UK22; - OpenTargets; ENSG00000116661; - PharmGKB; PA31895; - eggNOG; ENOG410IK6V; Eukaryota eggNOG; ENOG4111MF5; LUCA GeneTree; ENSGT00940000160929; - HOGENOM; HOG000231084; - HOVERGEN; HBG003593; - InParanoid; Q9UK22; - KO; K10099; - OMA; IHDESVK; - OrthoDB; 922544at2759; - PhylomeDB; Q9UK22; - TreeFam; TF320527; - Reactome; R-HSA-8951664; Neddylation Reactome; R-HSA-983168; Antigen processing; Ubiquitination & Proteasome degradation UniPathway; UPA00143; - ChiTaRS; FBXO2; human GeneWiki; FBXO2; - GenomeRNAi; 26232; - PRO; PR:Q9UK22; - Proteomes; UP000005640; Chromosome 1 Bgee; ENSG00000116661; Expressed in 187 organ(s), highest expression level in amygdala ExpressionAtlas; Q9UK22; baseline and differential Genevisible; Q9UK22; HS GO; GO:0005737; C:cytoplasm; IDA:ParkinsonsUK-UCL GO; GO:0005829; C:cytosol; ISS:UniProtKB GO; GO:0043197; C:dendritic spine; IEA:Ensembl GO; GO:0005783; C:endoplasmic reticulum; IEA:UniProtKB-KW GO; GO:0031090; C:organelle membrane; IEA:UniProtKB-SubCell GO; GO:0019005; C:SCF ubiquitin ligase complex; ISS:UniProtKB GO; GO:0001540; F:amyloid-beta binding; IEA:Ensembl GO; GO:0030246; F:carbohydrate binding; IEA:UniProtKB-KW GO; GO:0004842; F:ubiquitin-protein transferase activity; EXP:Reactome GO; GO:0006464; P:cellular protein modification process; TAS:ProtInc GO; GO:0006516; P:glycoprotein catabolic process; ISS:UniProtKB GO; GO:0008285; P:negative regulation of cell population proliferation; IEA:Ensembl GO; GO:0043687; P:post-translational protein modification; TAS:Reactome GO; GO:0000209; P:protein polyubiquitination; TAS:Reactome GO; GO:0016567; P:protein ubiquitination; ISS:UniProtKB GO; GO:0006508; P:proteolysis; TAS:ProtInc GO; GO:0031396; P:regulation of protein ubiquitination; IEA:Ensembl GO; GO:0031146; P:SCF-dependent proteasomal ubiquitin-dependent protein catabolic process; ISS:UniProtKB GO; GO:0030433; P:ubiquitin-dependent ERAD pathway; IEA:Ensembl Gene3D; 2.60.120.260; -; 1 InterPro; IPR007397; F-box-assoc_dom InterPro; IPR036047; F-box-like_dom_sf InterPro; IPR001810; F-box_dom InterPro; IPR039752; F-box_only InterPro; IPR008979; Galactose-bd-like_sf PANTHER; PTHR12125; 1 Pfam; PF00646; F-box; 1 Pfam; PF04300; FBA; 1 SMART; SM01198; FBA; 1 SUPFAM; SSF49785;

SSF49785; 1 SUPFAM; SSF81383; SSF81383; 1 PROSITE;
PS51114; FBA; 1 PROSITE; PS50181; FBOX; 1 1: Evidence at
protein level; Complete proteome; Cytoplasm; Endoplasmic
reticulum; Lectin; Membrane; Microsome; Polymorphism;
Reference proteome; Ubl conjugation pathway CHAIN 1 296
F-box only protein 2 /FTId=PRO_0000119875 DOMAIN 44 91
F-box. {ECO:0000255|PROSITE- ProRule:PRU00080} DOMAIN
113 296 FBA. {ECO:0000255|PROSITE- ProRule:PRU00482}
REGION 210 212 Carbohydrate binding. REGION 278 279
Carbohydrate binding. SITE 173 173 Important for
carbohydrate binding VARIANT 118 118 K -> T (in
dbSNP:rs9614) {ECO:0000269|Ref.2} /FTId=VAR_049036
CONFLICT 45 45 Missing (in Ref. 1; AAF01822) CONFLICT 125
125 R -> C (in Ref. 2; CAG46907) CONFLICT 163 163 E -> D (in
Ref. 2; CAG46907) CONFLICT 275 275 D -> G (in Ref. 7;
AAF04515) SEQUENCE 296 AA; 33328 MW; 5226F19E27D884AF
CRC64; MDGDGDPEVS GQPEEASPEE QPEEASAEER RPEDQQEEREA
AAAAAYLDEL PEPLLLRVLV ALPAAELVQA CRLVCLRWKE
LVDGAPLWLL KCQQEGLVPE GGVEEERDHW QQFYFLSKRR
RNLLRNPCGE EDLEGWCDVE HGGDGWRVVEE LPGDSGVEFT
HDESVKKYFA SSFEWCRKAQ VIDLQAEGYW EELLDTTQPA
IVVKDWYSGR SDAGCLYELT VKLLSEHENV LAEFSSGQVA
VPQSDSDGGGW MEISHTFTDY GPGVRFVRF HGGQDSVYWK
GWFGARVTNS SVWVEP

FBXO2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FBXO2 Antibody (C-term) - 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 the 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 belongs to the Fbxs class. This protein is highly similar to the rat NFB42 (neural F Box 42 kDa) protein which is enriched in the nervous system and may play a role in maintaining neurons in a postmitotic state.

FBXO2 Antibody (C-term) - References

Eom, C.Y., et al. Proc. Natl. Acad. Sci. U.S.A. 100(17):9803-9807(2003) Ilyin, G.P., et al. Gene 296 (1-2), 11-20 (2002) : Yoshida, Y., et al. Nature 418(6896):438-442(2002) Winston, J.T., et al. Curr. Biol. 9(20):1180-1182(1999) Cenciarelli, C., et al. Curr. Biol. 9(20):1177-1179(1999)