

Anti-F-Box Protein Fbp5A (Rabbit) Antibody
Fbp5A Antibody
Catalog # ASR5258

Specification

Anti-F-Box Protein Fbp5A (Rabbit) Antibody - Product Information

Host	Rabbit
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	This affinity-purified antibody has been tested for use in ELISA, immunohistochemistry and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 51 kDa in size corresponding to Fbp5A protein by western blotting in the appropriate cell lysate or extract.
Physical State	Liquid (sterile filtered)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the amino terminal end of human Fbp5A protein.
Preservative	0.01% (w/v) Sodium Azide

Anti-F-Box Protein Fbp5A (Rabbit) Antibody - Additional Information

Gene ID 26271

Other Names
26271

Purity

This affinity-purified antibody is directed against human Fbp5A protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross reactivity with Fbp5A protein from human and chimpanzee based on 100% homology with the immunizing sequence. Expect partial reactivity with Fbp5A from dog based on partial (~92%, 13/14) sequence homology. Reactivity against homologues from other sources is not known.

Storage Condition

Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after

standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-F-Box Protein Fbp5A (Rabbit) Antibody - Protein Information

Name FBXO5 ([HGNC:13584](#))

Function

Regulator of APC activity during mitotic and meiotic cell cycle (PubMed:[16921029](http://www.uniprot.org/citations/16921029), PubMed:[17234884](http://www.uniprot.org/citations/17234884), PubMed:[17485488](http://www.uniprot.org/citations/17485488), PubMed:[17875940](http://www.uniprot.org/citations/17875940), PubMed:[23708001](http://www.uniprot.org/citations/23708001), PubMed:[23708605](http://www.uniprot.org/citations/23708605)). During mitotic cell cycle plays a role as both substrate and inhibitor of APC-FZR1 complex (PubMed:[16921029](http://www.uniprot.org/citations/16921029), PubMed:[17234884](http://www.uniprot.org/citations/17234884), PubMed:[17485488](http://www.uniprot.org/citations/17485488), PubMed:[17875940](http://www.uniprot.org/citations/17875940), PubMed:[23708001](http://www.uniprot.org/citations/23708001), PubMed:[23708605](http://www.uniprot.org/citations/23708605), PubMed:[29875408](http://www.uniprot.org/citations/29875408)). During G1 phase, plays a role as substrate of APC-FZR1 complex E3 ligase (PubMed:[29875408](http://www.uniprot.org/citations/29875408)). Then switches as an inhibitor of APC-FZR1 complex during S and G2 leading to cell-cycle commitment (PubMed:[29875408](http://www.uniprot.org/citations/29875408)). As APC inhibitor, prevents the degradation of APC substrates at multiple levels: by interacting with APC and blocking access of APC substrates to the D-box coreceptor, formed by FZR1 and ANAPC10; by suppressing ubiquitin ligation and chain elongation by APC by preventing the UBE2C and UBE2S activities (PubMed:[16921029](http://www.uniprot.org/citations/16921029), PubMed:[23708001](http://www.uniprot.org/citations/23708001), PubMed:[23708605](http://www.uniprot.org/citations/23708605)). Plays a role in genome integrity preservation by coordinating DNA replication with mitosis through APC inhibition in interphase to stabilize CCNA2 and GMNN in order to promote mitosis and prevent rereplication and DNA damage-induced cellular senescence (PubMed:[17234884](http://www.uniprot.org/citations/17234884), PubMed:[17485488](http://www.uniprot.org/citations/17485488), PubMed:[17875940](http://www.uniprot.org/citations/17875940)). During oocyte maturation, plays a role in meiosis through inactivation of APC-FZR1 complex. Inhibits APC through RPS6KA2 interaction that increases FBXO5 affinity for CDC20 leading to the metaphase arrest of the second meiotic division before fertilization (By similarity). Controls entry into the first meiotic division through inactivation of APC-FZR1 complex (By similarity). Promotes migration and osteogenic differentiation of mesenchymal stem cells (PubMed:[29850565](http://www.uniprot.org/citations/29850565)).

Cellular Location

Nucleus. Cytoplasm. Cytoplasm, cytoskeleton, spindle. Note=In interphase, localizes in a punctate manner in the nucleus and cytoplasm with some perinuclear concentration (PubMed:11988738). In mitotic cells, localizes throughout the cell, particularly at the spindle (PubMed:15469984)

Anti-F-Box Protein Fbp5A (Rabbit) Antibody - 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](#)

Anti-F-Box Protein Fbp5A (Rabbit) Antibody - Images



Rockland's Affinity Purified anti-Fbp5a antibody shows strong cytoplasmic and membranous staining of bile duct cells in human liver tissue. Tissue was formalin-fixed and paraffin embedded.

Brown color indicates presence of protein, blue color shows cell nuclei. Personal Communication, Kenneth Wester, www.proteinatlas.org, Uppsala, Sweden.

Anti-F-Box Protein Fbp5A (Rabbit) Antibody - Background

Fbp5A is a member of the F-box protein family that 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 similar to *Xenopus* early mitotic inhibitor-1 (Emi1), which is a mitotic regulator that interacts with Cdc20 and inhibits the anaphase-promoting complex.