

Goat Anti-FBL2 / FBXL2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1403a

Specification

Goat Anti-FBL2 / FBXL2 Antibody - Product Information

Application	WB, IHC
Primary Accession	O9UKC9
Other Accession	NP_036289 , 25827
Reactivity	Human
Predicted	Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	47062

Goat Anti-FBL2 / FBXL2 Antibody - Additional Information

Gene ID 25827

Other Names

F-box/LRR-repeat protein 2, F-box and leucine-rich repeat protein 2
{ECO:0000312|HGNC:HGNC:13598}, F-box protein FBL2/FBL3 {ECO:0000303|PubMed:10945468,
ECO:0000312|EMBL:AAF04510.1}, FBXL2 ([HGNC:13598](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=13598))

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-FBL2 / FBXL2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-FBL2 / FBXL2 Antibody - Protein Information

Name FBXL2 {ECO:0000303|PubMed:22323446, ECO:0000312|HGNC:HGNC:13598}

Function

Calcium-activated substrate recognition component of the SCF (SKP1-cullin-F-box protein) E3 ubiquitin-protein ligase complex, SCF(FBXL2), which mediates the ubiquitination and subsequent

proteasomal degradation of target proteins (PubMed:22020328, PubMed:22323446). Unlike many F-box proteins, FBXL2 does not seem to target phosphodegron within its substrates but rather calmodulin- binding motifs and is thereby antagonized by calmodulin (PubMed:22020328, PubMed:22323446). This is the case for the cyclins CCND2 and CCND3 which polyubiquitination and subsequent degradation are inhibited by calmodulin (PubMed:22020328, PubMed:22323446). Through CCND2 and CCND3 degradation induces cell-cycle arrest in G(0) (PubMed:22020328, PubMed:22323446). SCF(FBXL2) also mediates PIK3R2 ubiquitination and proteasomal degradation thereby regulating phosphatidylinositol 3-kinase signaling and autophagy (PubMed:23604317). PCYT1A monoubiquitination by SCF(FBXL2) and subsequent degradation regulates synthesis of phosphatidylcholine, which is utilized for formation of membranes and of pulmonary surfactant (By similarity). The SCF(FBXL2) complex acts as a regulator of inflammation by mediating ubiquitination and degradation of TRAF proteins (TRAF1, TRAF2, TRAF3, TRAF4, TRAF5 and TRAF6) (By similarity). The SCF(FBXL2) complex acts as a negative regulator of the NLRP3 inflammasome by mediating ubiquitination and degradation of NLRP3 (PubMed:26037928).

Cellular Location

Membrane; Lipid- anchor

Tissue Location

Expressed in brain, heart, kidney, liver, lung, pancreas and placenta.

Goat Anti-FBL2 / FBXL2 Antibody - Protocols

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

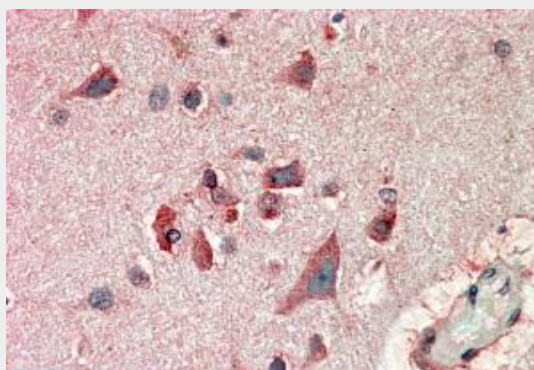
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-FBL2 / FBXL2 Antibody - Images





AF1403a staining (0.3 $\mu\text{g/ml}$) of Human Brain lysates (RIPA buffer, 35 μg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



AF1403a (10 $\mu\text{g/ml}$) staining of paraffin embedded Human Cerebral Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.