

Goat Anti-FBXL3 Antibody

Peptide-affinity purified goat antibody Catalog # AF1406a

Specification

Goat Anti-FBXL3 Antibody - Product Information

Application WB
Primary Accession O9UKT7

Other Accession <u>NP_036290</u>, <u>26224</u>

Reactivity Human

Predicted Mouse, Rat, Pig, Dog

Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG Calculated MW 48707

Goat Anti-FBXL3 Antibody - Additional Information

Gene ID 26224

Other Names

F-box/LRR-repeat protein 3, F-box and leucine-rich repeat protein 3A, F-box/LRR-repeat protein 3A, FBXL3, FBXL3A

Format

0.5 mg lgG/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-FBXL3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-FBXL3 Antibody - Protein Information

Name FBXL3

Synonyms FBL3A, FBXL3A

Function

Substrate-recognition component of the SCF(FBXL3) E3 ubiquitin ligase complex involved in circadian rhythm function. Plays a key role in the maintenance of both the speed and the robustness of the circadian clock oscillation (PubMed:<a



href="http://www.uniprot.org/citations/17463251" target="_blank">17463251, PubMed:23452855, PubMed:27565346). The SCF(FBXL3) complex mainly acts in the nucleus and mediates ubiquitination and subsequent degradation of CRY1 and CRY2 (PubMed:17463251, PubMed:23452855, PubMed:27565346). Activity of the SCF(FBXL3) complex is counteracted by the SCF(FBXL21) complex (PubMed:23452855).

Cellular Location

Nucleus. Cytoplasm. Note=Predominantly nuclear

Tissue Location

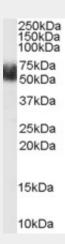
Widely expressed..

Goat Anti-FBXL3 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

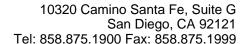
Goat Anti-FBXL3 Antibody - Images



AF1406a (1 μ g/ml) staining of Human Adipose lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-FBXL3 Antibody - 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 belongs to the Fbls class and, in addition to an F-box, contains several tandem leucine-rich repeats and is localized in the nucleus.

Goat Anti-FBXL3 Antibody - References

SCFFbxl3 controls the oscillation of the circadian clock by directing the degradation of cryptochrome proteins. Busino L, et al. Science, 2007 May 11. PMID 17463251. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.

Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.

cDNA cloning and expression analysis of new members of the mammalian F-box protein family. Ilyin GP, et al. Genomics, 2000 Jul 1. PMID 10945468.