Datasheet for ABIN6656088

anti-FKBP5 antibody

2 Images

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Overview

Quantity:	100 µg
Target:	FKBP5
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FKBP5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Fluorescence Microscopy (FM)

Product Details

Purpose:	FKBP51 Antibody
Immunogen:	FKBP51 Antibody was produced in mice by repeated immunizations with a synthetic peptide corresponding to the residues of human FKBP51.
Clone:	Hi51B
Isotype:	IgG1
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with FKBP51 from Canine, Hamster, Human, Mouse, Rat, and Rabbit based on 100 % homology with the immunizing sequence.
Purification:	Anti-FKBP51 Antibody was purified by Protein G chromatography.
Sterility:	Sterile filtered

Target Details

Target:	FKBP5
Alternative Name:	FKBP51 (FKBP5 Products)
Background:	Synonyms: AIG6, FK506 binding protein 5, FKBP5, FKBP54, FKBP51, Hsp90 binding immunophilin, p54, Pplase, Ptg10, Rotamase, T cell FK506 binding protein antibody Background: Hsp90 is crucial to cellular signaling by its regulation of the folding, activity, and stability of a wide range of client proteins. These client protein complexes may also contain one or more cochaperones. One class of Hsp90-binding cochaperone is composed of proteins with a characteristic tetratricopeptide repeat (TPR) domain that forms an Hsp90 binding site. Among the TPR cochaperones of Hsp90 are Hop/Sti1, protein phosphatase PP5, and members of both the FK506- and cyclosporin A-binding families of immunophilins. FK506-binding protein 51 (FKBP51) and FKBP52 are large molecular weight immunophilins that are part of the mature glucocorticoid receptor (GR) heterocomplex. The N terminal domain of each protein binds FK506 and has peptidyl-prolyl isomerase (PPIase) activity that converts prolyl peptide bonds within target proteins from cis- to trans- proline. The C-terminal domains contain the TPR repeats involved in protein-protein interactions with the Hsp90. Although FKBP52 and FKBP51 share ~75 % sequence similarity, they affect hormone binding by glucocorticoid receptor in opposing manners and have different Hsp90-binding characteristics . FK506 binding protein 51 kDa (FKBP51 or otherwise referred to as FKBP54) has been identified as a progestininducible gene. This protein is predominantly expressed in murine T cells but in humans, it is abundantly expressed in numerous tissues at levels many times higher than FKBP12. The FKBP51 gene is known to be induced by glucocorticoids. Gene Name: FKBP5
Gene ID:	2289
NCBI Accession:	NP_001139247
UniProt:	Q13451

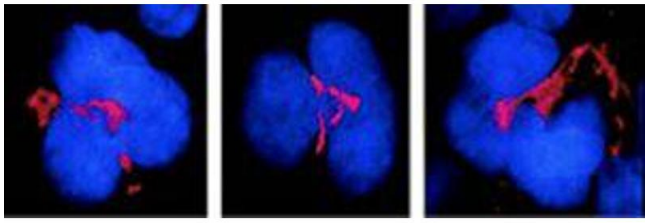
Application Details

Application Notes:	IF_Microscopy_Dilution: 10 µg/mL Western_Blot_Dilution: 1:2000
Comment:	Anti-FKBP51 Antibody is tested for IF and WB. Expect a band approximately ~51kDa protein representing FKBP51 in cell lysates. Specific conditions for reactivity should be optimized by the end user.
Restrictions:	For Research Use only

Handling

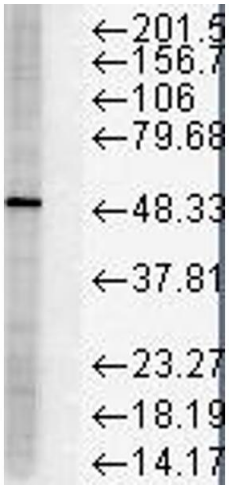
Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol Preservative: 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Images



Immunofluorescence

Image 1. FKBP51 Immunofluorescence. Immunofluorescence Microscopy of Mouse anti-FKBP51 antibody. Tissue: normal MK cells . Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: FKBP51 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein mouse secondary antibody at 1:10,000 for 45 min at RT. Localization: FKBP51 is nuclear and cytoplasmic. Staining: FKBP51 as red fluorescent signal.



Western Blotting

Image 2. FKBP51 Western Blot. Western Blot of mouse anti-FKBP51 antibody. Lane 1: HeLa Cell lysates. Lane 2: none. Load: 35 µg per lane. Primary antibody: FKBP51 antibody at 1:1000 for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 51.2kDa/~50 kDa for FKBP51. Other band(s): none.