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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-FKBP51 Antibody [Hi51B]

Mouse Anti-Human FKBP51 Monoclonal IgG
Catalog No. SMC-138



Discovery through partnership | Excellence through quality

Overview

Product Name

FKBP51 Antibody

Description

Mouse Anti-Human FKBP51 Monoclonal IgG

Species Reactivity

Dog, Human, Mouse, Rat, Hamster, Rabbit

Applications

WB, ICC/IF

Antibody Dilution

WB (1:2000), ICC/IF (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Synthetic peptide corresponding to the residues of human FKBP51

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

Hi51B

Isotype

IgG

Specificity

Detects ~51kDa.

Cite This Product

Mouse Anti-Human FKBP51 Monoclonal, Clone Hi51B (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-138)

Certificate Of Analysis

A 1:2000 dilution was sufficient for detection of FKBP51 in ~50 µg total protein using WB analysis.

Biological Description

Alternative Names

AIG6 Antibody, FK506 binding protein 5 Antibody, FKBP5 Antibody, FKBP54 Antibody, HSP90 binding immunophilin Antibody, p54 Antibody, Pplase Antibody, Ptg10 Antibody, Rotamase Antibody, T cekk FK506 binding protein Antibody

Research Areas

Cancer, Heat Shock, Cell Signaling, Trafficking

Cellular Localization

Cytoplasm, Nucleus

Accession Number

NP_001139247.1

Gene ID

2289

Swiss Prot

Q13451

Scientific 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 (1). 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 (2). FK506-binding protein 51 (FKBP51) and FKBP52 are large molecular weight immunophilins that are part of the mature glucocorticoid receptor (GR) heterocomplex (3).

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 (4). Although FKBP52 and FKBP51 share ~75% sequence similarity, they affect hormone binding by glucocorticoid receptor in opposing manners and have different HSP90-binding characteristics (3).

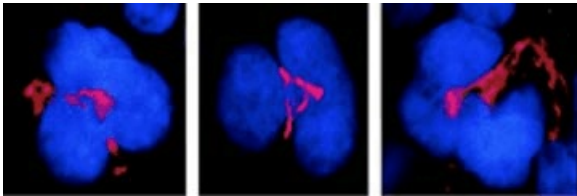
FK506 binding protein 51 kDa (FKBP51 or otherwise referred to as FKBP54) has been identified as a progestininducible gene. This

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 (5).

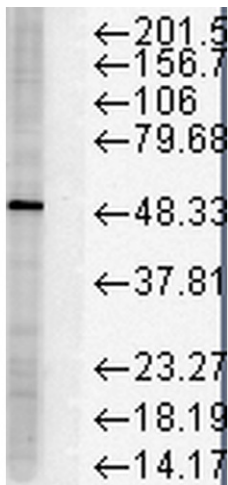
References

1. Cheung-Flynn J., Roberts P.J., Riggs D.L., and Smith D.F.(2003) J. Biol. Chem. 278(19): 17388-17394.
2. Davies T.H., Ning Y.N., and Sanchez E.R. (2002) J Biol. Chem. 277 (7): 4597-4600.
3. Wu B. et al. (2004) Proc. Natl. Acad. Sci. USA. 101(22): 8348-8353.
4. Denny W.B., Prapapanich V., Smith D.F., and Scammell J.G. (2005) Endocrinology 146(7): 3194-3201.
5. Hubler T.R. et al. (2003) Endocrinology 144(6): 2380- 2387.

Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-FKBP51 Monoclonal Antibody, Clone Hi51B (SMC-138). Tissue: MK cells. Species: Mouse. Primary Antibody: Mouse Anti-FKBP51 Monoclonal Antibody (SMC-138) at 1:1000. Secondary Antibody: APC Goat Anti-Mouse (red). Counterstain: DAPI (blue) nuclear stain. Courtesy of: the Hospital Henri Mondor, France.



Western Blot analysis of Human HeLa cell lysates showing detection of FKBP51 protein using Mouse Anti-FKBP51 Monoclonal Antibody, Clone Hi51B (SMC-138). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-FKBP51 Monoclonal Antibody (SMC-138) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (1)

Western Blot

Endothelial glucocorticoid receptor promoter methylation according to dexamethasone sensitivity.

Mata-Greenwood, E. et al. -2015 J Mol Endocrinol. pii: JME-15-0124.

PubMed ID: 26242202 **Reactivity:** Human **Applications:** Western Blot

Reviews

Based on validation through cited publications.



StressMarq Biosciences

June 14, 2016: