Product Datasheet

FKBP51 Antibody (Biotin) (orb147194)

Catalog Number	orb147194
Category	Antibodies
Description	Mouse monoclonal to FKBP51 (Biotin). 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..
Target	FKBP51
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG1
Conjugation	Biotin

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Reactivity	Canine, Hamster, Human, Mouse, Rabbit, Rat
Concentration	1 mg/ml
Buffer/Preservatives	136.36mM Ethanolamine, 133.23 mM Chlorides, 9.55mM Phosphates, 9.55mM Sodium Bicarbonate
Purification	Protein G Purified
Immunogen	Synthetic peptide corresponding to the residues of human FKBP51
UniProt ID	**Q13451**
MW	51kDa
Tested applications	ICC, IF, WB
Dilution range	WB (1:2000), ICC/IF (1:1000)
Application notes	A 1:2000 dilution was sufficient for detection of FKBP51 in ~50 µg total protein using WB analysis.
Specificity	Detects ~51kDa.
Clone Number	Hi51B
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Entrez	**2289**
NCBI	**NP_001139247.1**
Expiration Date	12 months from date of receipt.

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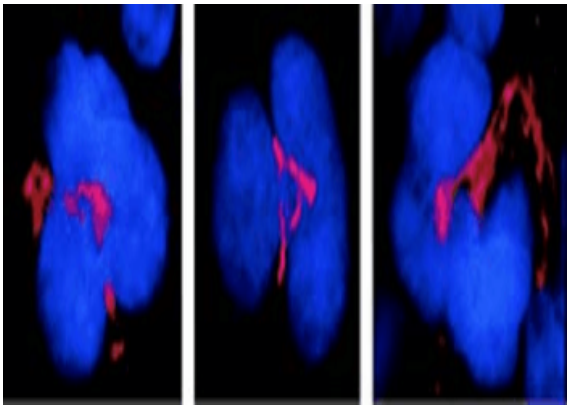
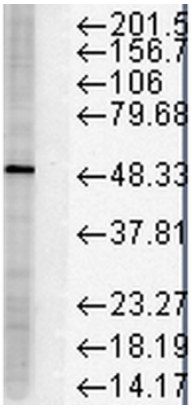


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-FKBP51 Monoclonal Antibody, Clone Hi51B. Tissue: MK cells. Species: Mouse. Primary Antibody: Mouse Anti-FKBP51 Monoclonal Antibody at 1:1000. Secondary Antibody: APC Goat Anti-Mouse (red). Counterstain: DAPI (blue) nuclear stain. Cells stained red.



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

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