

Product datasheet for **TA326352**

FKBP51 (FKBP5) Mouse Monoclonal Antibody [Clone ID: Hi51B]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Hi51B
Applications:	IF, WB
Recommended Dilution:	WB: 1:2000
Reactivity:	Canine, Human, Mouse, Rat, Rabbit, Hamster
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to the residues of human FKBP51
Formulation:	PBS, 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	FK506 binding protein 5
Database Link:	NP_004108 Entrez Gene 14229 Mouse Entrez Gene 361810 Rat Entrez Gene 2289 Human Q13451



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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.

Synonyms:

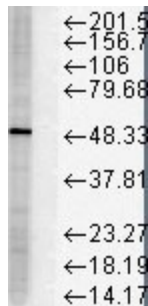
AIG6; FKBP51; FKBP54; P54; PPIase; Ptg-10

Note:

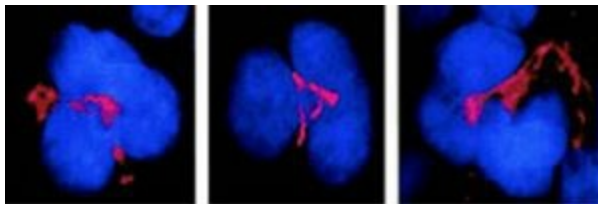
Detects an ~51kDa protein representing FKBP51 in cell lysate. Also detects FKBP51 in whole tissue extracts from rat kidney and rat and mouse testes.

Protein Families:

Druggable Genome

Product images:


Western blot analysis of FKBP51 in HeLa cell lysates, using a 1:1000 dilution of the antibody



IF localization of FKBP51 antibody in normal MK cells (shown in red). Courtesy of the Hospital Henri Mondor, France.