

Product datasheet for **TA326427**

FKBP52 (FKBP4) Mouse Monoclonal Antibody [Clone ID: Hi52C]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Hi52C
Applications:	IHC
Recommended Dilution:	WB: 1:2000, IHC: 5ug with 10-20uL Protein A beads, IHC: 1:250
Reactivity:	Canine, Hamster, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide corresponding to the residues of human FKBP52
Formulation:	PBS, 50% glycerol, 0.09% sodium azide
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 4
Database Link:	NP_002005 Entrez Gene 14228 Mouse Entrez Gene 260321 Rat Entrez Gene 2288 Human Q02790



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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 co-chaperones 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. Also, whereas FKBP51 typically has a role with the progesterone receptor, FKBP52 has been found to be linked to the progesterone, androgen and glucocorticoid receptors.

Synonyms:

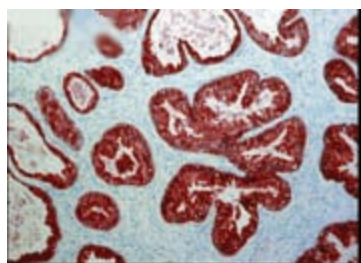
FKBP51; FKBP52; FKBP59; HBI; Hsp56; p52; PPIase

Note:

Detects an ~52kDa protein representing FKBP52 in cell lysate. Also detects FKBP52 in whole tissue extracts from rat kidney and rat and mouse testes. Heavy chain migrates close to FKBP52 on SDS PAGE.

Protein Families:

Druggable Genome

Product images:

Prostate tissue was histologically stained with antibodies specific for FKBP52. The strongest staining for FKBP52 is in ductal epithelial cells. Courtesy of David F. Smith, Mayo Clinic, USA.