

Datasheet for 200-301-F29**FKBP52 Antibody****Overview**

Description:	Anti-FKBP52 (MOUSE) Monoclonal Antibody - 200-301-F29
Item No.:	200-301-F29
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat, Dog, Hamster
Host Species:	Mouse

Product Details**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:	FK506 binding protein 4, FKBP4, FKBP59, HBI, Hsp56, p52, p59, PPIase, Rotamase, T cell FK506 binding protein, FKBP52
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	Hi52C
Format:	IgG

Target Details

Gene Name:	FKBP4
Reactivity:	Human, Mouse, Rat, Dog, Hamster
Immunogen Type:	Conjugated Peptide
Immunogen:	FKBP51 Antibody was produced in mice by repeated immunizations with a synthetic peptide corresponding to the residues of human FKBP51.
Purity/Specificity:	Anti-FKBP52 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with FKBP52 from Canine, Hamster, Human, Mouse, and Rat based on 100% homology with the immunizing sequence. Also detects FKBP52 in whole tissue extracts from rat kidney and rat and mouse testes. Cross-reactivity with FKBP52 from other sources has not been determined. Heat Shock research.
Relevant Links:	• NCBI - NP_002005.1 • GeneID - 2288 • UniProtKB - Q02790

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-FKBP52 Antibody is tested for WB, IP, IF, and IHC-P. Expect a band approximately ~52kDa protein representing FKBP52 in cell lysates. Heavy chain migrates close to FKBP52 on SDS PAGE. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:250
IP:	5µg/20uL
WB:	1:2000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide

Stabilizer: 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: 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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of mouse anti-FKBP52 antibody.
Tissue: Prostate tissue. Fixation: N/A. Primary Antibody: FKBP52 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Cytoplasm. Staining: FKBP52 as precipitated brown signal, strongest in ductal epithelial cells.

Disclaimer

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