

Product Datasheet

FKBP52 Antibody: HRP (orb147213)

Description

Mouse monoclonal to FKBP52 (HRP). 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 (3, 5). 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..

Species/Host

Mouse

Reactivity

Canine, Hamster, Human, Mouse, Rat

Conjugation

HRP

Tested Applications

ELISA, IHC, WB

Immunogen

Synthetic peptide corresponding to the residues of human FKBP52

Target

FKBP52

Preservatives

73.64mM Carbonate, 54.55mM Ethanolamine, 45.45mM Cyanoborohydride, 18.18mM Sodium Hydroxide and 0.23mM Citrate in dH2O

Concentration

1 mg/ml

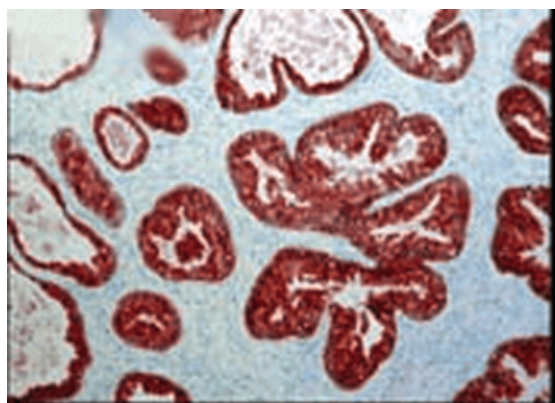
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Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Application notes	0.5 µg/ml was sufficient for detection of FKBP52 in 20 µg total protein using WB by colorimetric immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary.
Isotype	IgG2a
Clonality	Monoclonal
Clone Number	Hi52C
MW	52kDa
Uniprot ID	Q02790
NCBI	NP_002005.1
Entrez	2288
Dilution Range	WB (1:2000), IHC (1:250), ICC/IF (1:1000), IP (5µg)
Expiration Date	12 months from date of receipt.



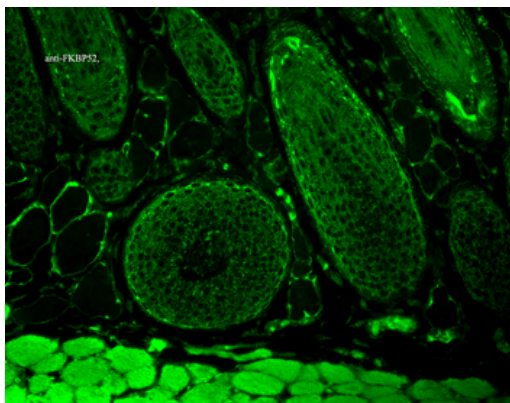
Immunohistochemistry analysis using Mouse Anti-FKBP52 Monoclonal Antibody, Clone Hi52C. Tissue: prostate tissue (ductal epithelial cells). Species: Human. Primary Antibody: Mouse Anti-FKBP52 Monoclonal Antibody at 1:1000.

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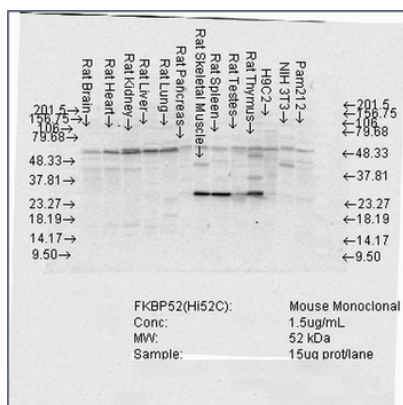
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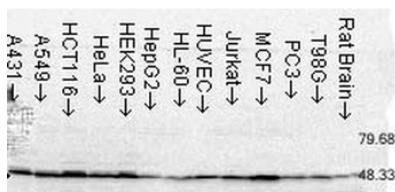
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Immunohistochemistry analysis using Mouse Anti-FKBP52 Monoclonal Antibody, Clone Hi52C. Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-FKBP52 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Epidermis.



Western Blot analysis of Rat Brain, Heart, Kidney, Liver, Pancreas, Skeletal muscle, Spleen, Testes, Thymus cell lysates showing detection of FKBP52 protein using Mouse Anti-FKBP52 Monoclonal Antibody, Clone Hi52C. Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-FKBP52 Monoclonal Antibody at 1.5 µg/mL for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



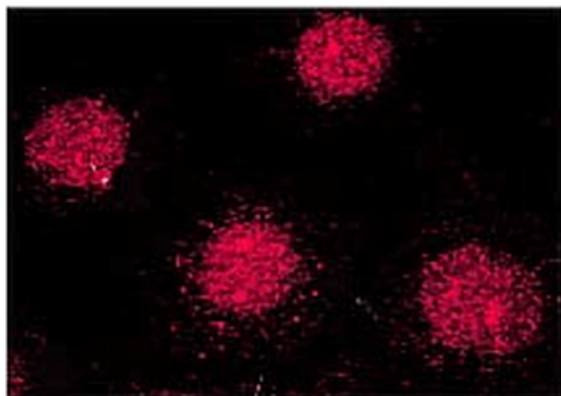
Western Blot analysis of Human Cell lysates showing detection of FKBP52 protein using Mouse Anti-FKBP52 Monoclonal Antibody, Clone Hi52C. Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-FKBP52 Monoclonal Antibody at 1.5 µg/mL for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-FKBP52 Monoclonal Antibody, Clone Hi52C. Tissue: MCF-7 cells (metastatic mammary gland/breast cell line). Species: Human. Primary Antibody: Mouse Anti-FKBP52 Monoclonal Antibody at 1:1000. Secondary Antibody: APC Goat Anti-Mouse (red).

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