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FKBP52 Recombinant Mouse mAb

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Catalog # AP94345

Product Information

Application	WB, IHC-P, IHC-F, IF
Host	Rabbit
Clonality	Recombinant
Physical State	Liquid
Isotype	IgG1, Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm; cytosol. Nucleus. Cytoplasm; cytoskeleton.
SIMILARITY	Contains 2 PPIase FKBP-type domains. Contains 3 TPR repeats.
SUBUNIT	Homodimer. Associates with HSP90 and HSP70 in unactivated steroid hormone receptor complexes. Also interacts with peroxisomal phytanoyl-CoA alpha-hydroxylase (PHYH). Interacts with HSF1 in the HSP90 complex. Associates with tubulin (By similarity). Interacts with MAPT/TAU (By similarity). Interacts with NR3C1 and dynein (By similarity). Interacts (via TPR domain) with S100A1, S100A2 and S100A6; the interaction is Ca(2+) dependent. Interaction with S100A1 and S100A2 (but not with S100A6) leads to inhibition of FKBP4-HSP90 interaction.
Post-translational modifications	Phosphorylation by CK2 results in loss of HSP90 binding activity (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It has high structural and functional similarity to FK506-binding protein 1A (FKBP1A), but unlike FKBP1A, this protein does not have immunosuppressant activity when complexed with FK506. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes. This encoded protein is known to associate with phytanoyl-CoA alpha-hydroxylase. It can also associate with two heat shock proteins (hsp90 and hsp70) and thus may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. This protein correlates strongly with adeno-associated virus type 2 vectors (AAV) resulting in a significant increase in AAV-mediated transgene expression in human cell lines. Thus this encoded protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy. The human genome contains several non-transcribed pseudogenes similar to this gene. [provided by RefSeq, Sep 2008]

Additional Information

Target/Specificity	Widely expressed.
Dilution	WB=1:500-1:1000,IHC-P=1:100-500,IHC-F=1:100-500,IF=0
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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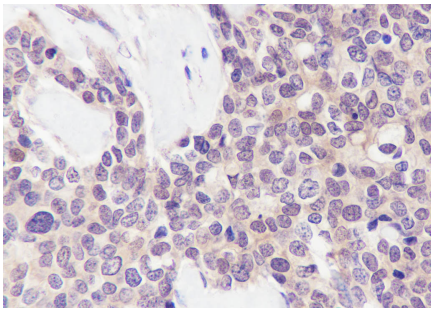
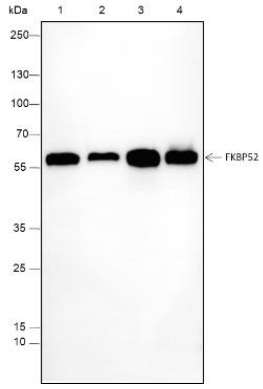
Images



Tissue: Human breast cancer Section type: Formalin fixed & Paraffin -embedded section Retrieval method: High temperature and high pressure Retrieval buffer: Tris/EDTA buffer, pH 9.0 Primary Ab dilution: 1:100 Primary Ab incubation condition: 1 hour at room temperature Counter stain: Hematoxylin Comment: Color brown is the positive signal for AP94345



Blocking buffer: 5% NFDM/TBST Primary Ab dilution: 1:1000 Primary Ab incubation condition: 4°C overnight Lysate: 1: HeLa, 2: HEK-293, 3: MCF-7, 4: Jurkat Protein loading quantity: 20 µg Exposure time: 30 s Predicted MW: 56 kDa Observed MW: 56 kDa