ARG22264
anti-FKBP4 / FKBP52 antibody [Hi52C]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [Hi52C] recognizes FKBP4 / FKBP52
Tested Reactivity	Hu, Ms, Rat, Dog, Hm
Tested Application	ICC/IF, IHC-P, IP, WB
Specificity	Detects ~52kDa. Heavy chain migrates close to FKBP52 on SDS PAGE.
Host	Mouse
Clonality	Monoclonal
Clone	Hi52C
Isotype	IgG
Target Name	FKBP4 / FKBP52
Species	Human
Immunogen	Synthetic peptide from Human FKBP52
Conjugation	Un-conjugated
Alternate Names	Hsp56; FKBP59; HBI; FKBP-52; 52 kDa FK506-binding protein; PPIase FKBP4; FKBP52; Rotamase; FKBP51; Immunophilin FKBP52; 51 kDa FK506-binding protein; EC 5.2.1.8; PPIase; p59; FKBP-4; 52 kDa FKBP; 59 kDa immunophilin; Peptidyl-prolyl cis-trans isomerase FKBP4; FK506-binding protein 4; HSP-binding immunophilin; p52

Application Instructions

Application table

Application	Dilution
ICC/IF	1:1000
IHC-P	1:1000
IP	5 µg/ml
WB	1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

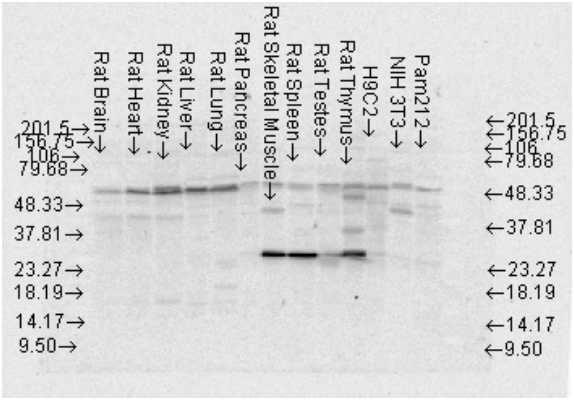
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.09% Sodium azide and 50% Glycerol
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

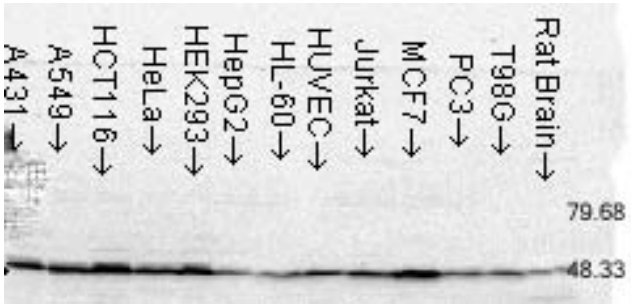
Gene Symbol	FKBP4
Gene Full Name	FK506 binding protein 4, 59kDa
Background	The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans 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]
Function	Immunophilin protein with PPIase and co-chaperone activities. Component of steroid receptors heterocomplexes through interaction with heat-shock protein 90 (HSP90). May play a role in the intracellular trafficking of heterooligomeric forms of steroid hormone receptors between cytoplasm and nuclear compartments. The isomerase activity controls neuronal growth cones via regulation of TRPC1 channel opening. Acts also as a regulator of microtubule dynamics by inhibiting MAPT/TAU ability to promote microtubule assembly. May have a protective role against oxidative stress in mitochondria. [UniProt]
Calculated Mw	52 kDa
PTM	Phosphorylation by CK2 results in loss of HSP90 binding activity.
Cellular Localization	Cytoplasm, Nucleus

Images



ARG22264 anti-FKBP4 / FKBP52 antibody [Hi52C] WB image

Western blot: 15 µg of Rat brain, heart, kidney, liver, pancreas, skeletal muscle, spleen, testes, and thymus, H9C2, NIH 3T3, and Pam212 lysates stained with ARG22264 anti-FKBP4 / FKBP52 antibody [Hi52C] at 1.5 µg/ml dilution (2 hours at RT).



ARG22264 anti-FKBP4 / FKBP52 antibody [Hi52C] WB image

Western blot: 15 µg of Human cell lysates stained with ARG22264 anti-FKBP4 / FKBP52 antibody [Hi52C] at 1.5 µg/ml dilution (2 hours at RT).