

ARG55319 anti-FKBP4 / FKBP52 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes FKBP4 / FKBP52
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	FKBP4 / FKBP52
Species	Human
Immunogen	Recombinant protein of Human FKBP4 (NP_002005.1)
Conjugation	Un-conjugated
Alternate Names	Hsp56; FKBP59; HBI; FKBP-52; 52 kDa FK506-binding protein; PPlase FKBP4; FKBP52; Rotamase; FKBP51; Immunophilin FKBP52; 51 kDa FK506-binding protein; EC 5.2.1.8; PPlase; 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	1:50 - 1:200
	IHC-P	1:50 - 1:200
	IP	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	MCF-7	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
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.

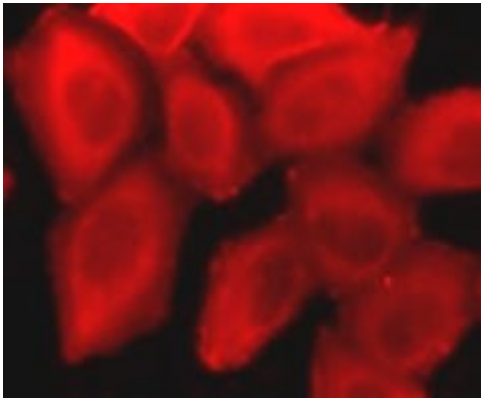
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

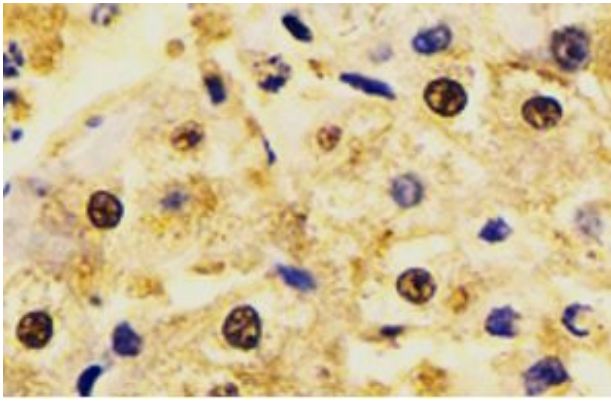
Gene Symbol	FKBP4
Gene Full Name	FK506 binding protein 4, 59kDa
Background	The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans 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]
Research Area	Gene Regulation antibody; Signaling Transduction antibody
Calculated Mw	52 kDa
PTM	Phosphorylation by CK2 results in loss of HSP90 binding activity.

Images



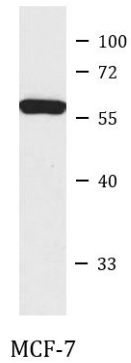
ARG55319 anti-FKBP4 / FKBP52 antibody ICC/IF image

Immunofluorescence: A549 cells stained with ARG55319 anti-FKBP4 / FKBP52 antibody.



ARG55319 anti-FKBP4 / FKBP52 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver injury stained with ARG55319 anti-FKBP4 / FKBP52 antibody at 1:200 dilution.



ARG55319 anti-FKBP4 / FKBP52 antibody WB image

Western blot: MCF-7 cell lysate stained with ARG55319 anti-FKBP4 / FKBP52 antibody.