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FKBP4 / FKBP52 Antibody (clone Hi52C)

Mouse Monoclonal Antibody
Catalog # ALS14973

Specification

FKBP4 / FKBP52 Antibody (clone Hi52C) - Product Information

Application	**IHC, IF**
Primary Accession	Q02790
Reactivity	**Human, Mouse, Rat, Hamster, Dog**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**52kDa KDa**

FKBP4 / FKBP52 Antibody (clone Hi52C) - Additional Information

Gene ID 2288

Other Names
Peptidyl-prolyl cis-trans isomerase FKBP4, PPIase FKBP4, 5.2.1.8, 51 kDa FK506-binding protein, FKBP51, 52 kDa FK506-binding protein, 52 kDa FKBP, FKBP-52, 59 kDa immunophilin, p59, FK506-binding protein 4, FKBP-4, FKBP59, HSP-binding immunophilin, HBI, Immunophilin FKBP52, Rotamase, Peptidyl-prolyl cis-trans isomerase FKBP4, N-terminally processed, FKBP4, FKBP52

Target/Specificity
Detects an ~52 kD protein representing FKBP52 in HeLa cell lysate. Also detects FKBP52 in whole tissue extracts from rat kidney and rat and mouse testes. Heavy chain migrates close to FKBP52 on SDS-PAGE.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
FKBP4 / FKBP52 Antibody (clone Hi52C) is for research use only and not for use in diagnostic or therapeutic procedures.

FKBP4 / FKBP52 Antibody (clone Hi52C) - Protein Information

Name FKBP4

Synonyms FKBP52

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.

Cellular Location
Cytoplasm, cytosol. Mitochondrion. Nucleus {ECO:0000250|UniProtKB:P30416}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9QVC8}. Cell projection, axon {ECO:0000250|UniProtKB:Q9QVC8}. Note=Shuttles from mitochondria to nucleus; co-localizes in mitochondria with the glucocorticoid receptor (PubMed:21730050). Colocalized with MAPT/TAU in the distal part of the primary cortical neurons (By similarity) {ECO:0000250|UniProtKB:Q9QVC8, ECO:0000269|PubMed:21730050}

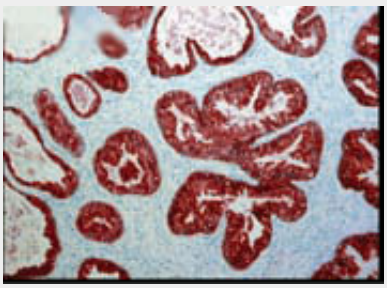
Tissue Location
Widely expressed..

FKBP4 / FKBP52 Antibody (clone Hi52C) - Protocols

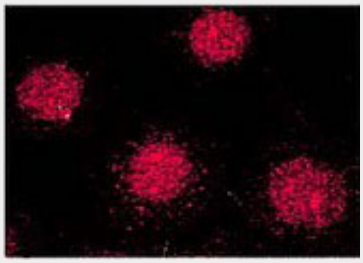
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FKBP4 / FKBP52 Antibody (clone Hi52C) - Images



Prostate tissue was histologically stained with antibodies specific for FKBP52.



FKBP52 (Hi52C), MCF-7 cells.

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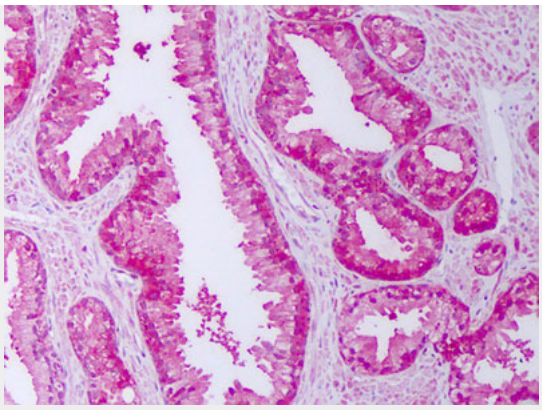

Anti-FKBP52 antibody IHC of human prostate.

FKBP4 / FKBP52 Antibody (clone Hi52C) - Background

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.

FKBP4 / FKBP52 Antibody (clone Hi52C) - References

Peattie D.A.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:10974-10978(1992).
Scherer S.E.,et al.Nature 440:346-351(2006).
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