FKBP4 monoclonal antibody, clone Hi52C (ATTO 594)

Catalog # MAB11376 Size 100 ug

Applications

Application Data with Unconjugated Antibody

Immunohistochemistry

Immunohistochemical staining of human prostate tissue with FKBP4 monoclonal antibody, clone Hi52C (Cat # MAB11372) shows the strongest staining for FKBP4 is in ductal epithelial cells.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of FKBP4.
Immunogen	A synthetic peptide corresponding to residues of human FKBP4.
Host	Mouse
Reactivity	Dog, Hamster, Human, Mouse, Rat
Form	Liquid
Conjugation	ATTO 594
Extinction Coefficient	80,000
Excitation (Max)	601 nm
Emission (Max)	627 nm
Purification	Protein G purification
Isotype	IgG

Recommend Usage	Western Blot (1:2000) Immunohistochemistry (1:250) Immunoprecipitation (5 ug with 10-20 uL Protein A beads) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (50% glycerol, 0.09% sodium azide)
Storage Instruction	Store at 4°C. Aliquot to avoid repeated freezing and thawing.
Note	Application Data with Unconjugated Antibody Immunohistochemistry Immunohistochemical staining of human prostate tissue with FKBP4 monoclonal antibody, clone Hi5 2C (Cat # MAB11372) shows the strongest staining for FKBP4 is in ductal epithelial cells.

Applications

- Western Blot
- Immunohistochemistry
- Immunoprecipitation

Gene Info — FKBP4

Entrez GeneID	2288
Protein Accession#	NP_002005.1
Gene Name	FKBP4
Gene Alias	FKBP52, FKBP59, HBI, Hsp56, PPIase, p52
Gene Description	FK506 binding protein 4, 59kDa
Omim ID	600611
Gene Ontology	Hyperlink

Gene Summary	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
Other Designations	52 kD FK506 binding protein|FK506 binding protein 4 (59kD)|FK506 binding protein 52|FK506-binding protein 4 (59kD)|HSP binding immunophilin|T-cell FK506-binding protein, 59kD|p59 protein|peptidyl|prolyl cis-trans isomerase|rotamase

Disease

- Asthma
- Genetic Predisposition to Disease
- Glaucoma
- Hypospadias
- Syndrome