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FKBP4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant FKBP4.
Catalog # AT2057a

Product Information

Application	WB, IHC, IP, E
Primary Accession	Q02790
Other Accession	BC007924
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	5C11
Calculated MW	51805

Additional Information

Gene ID	2288
Other Names	Peptidyl-prolyl cis-trans isomerase FKBP4, PPIase FKBP4, 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	FKBP4 (AAH07924, 301 a.a. ~ 410 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FKBP4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

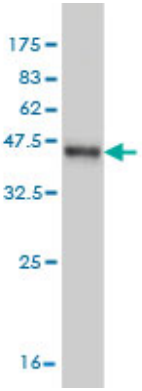
The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. 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.

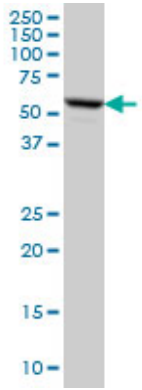
References

1.Identification of a New Panel of Serum Autoantibodies Associated with the Presence of In situ Carcinoma of the Breast in Younger Women.Desmetz C, Bascoul-Mollevi C, Rochaix P, Lamy PJ, Kramar A, Rouanet P, Maudelonde T, Mange A, Solassol J.Clin Cancer Res. 2009 Jul 15;15(14):4733-41. Epub 2009 Jul 7.

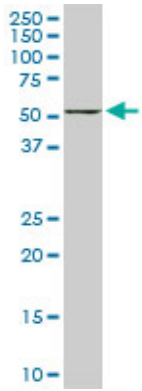
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

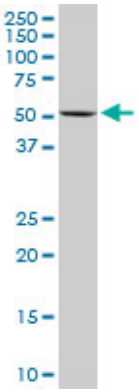


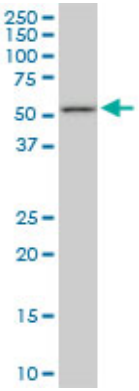
FKBP4 monoclonal antibody (M01), clone 5C11 Western Blot analysis of FKBP4 expression in HeLa ((Cat # AT2057a)



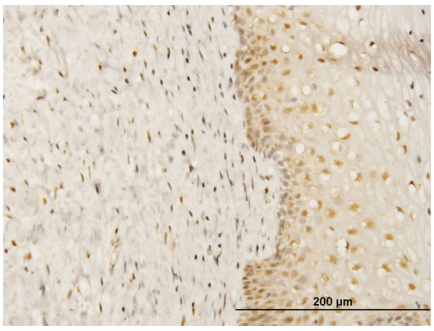
FKBP4 monoclonal antibody (M01), clone 5C11. Western Blot analysis of FKBP4 expression in PC-12 ((Cat # AT2057a)

FKBP4 monoclonal antibody (M01), clone 5C11. Western Blot analysis of FKBP4 expression in Raw 264.7 ((Cat # AT2057a)

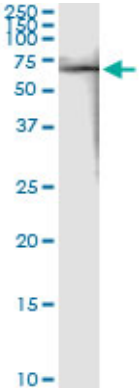




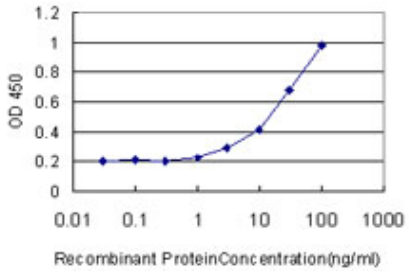
FKBP4 monoclonal antibody (M01), clone 5C11. Western Blot analysis of FKBP4 expression in NIH/3T3 ((Cat # AT2057a)



Immunoperoxidase of monoclonal antibody to FKBP4 on formalin-fixed paraffin-embedded human uterine cervix. [antibody concentration 0.5 ug/ml]



Immunoprecipitation of FKBP4 transfected lysate using anti-FKBP4 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with FKBP4 MaxPab rabbit polyclonal antibody.



Detection limit for recombinant GST tagged FKBP4 is approximately 1ng/ml as a capture antibody.