OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850
UNITED STATES
Phone: +1-888-267-4436
Fax: +1-301-340-8606
techsupport@origene.com

OriGene Technologies GmbH
Schillerstr. 5
32052 Herford
GERMANY
Phone: +49-5221-34606-0
Fax: +49-5221-34606-11
info-de@origene.com

AM09071PU-N Monoclonal Antibody to FKBP4 - Purified

Alternate names:	52 kDa FK506-binding protein, FK506-binding protein 4, FKBP52 protein, FKBP59, HBI, HSP-binding immunophilin, PPIase, Peptidyl-prolyl cis-trans isomerase, Rotamase, p59 protein
Quantity:	0.1 ml
Concentration:	1.0 mg/ml
Background:	FKBP4, also known as FKBP52, is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. It is a component of unactivated mammalian steroid receptor complexes and may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes.
Uniprot ID:	Q02790
NCBI:	NP_002005
GeneID:	2288
Host / Isotype:	Mouse / IgG2b
Recommended Isotype Controls:	SM12P, AM03110PU-N
Clone:	AT4D3
Immunogen:	Recombinant Human FKBP4 (1-459 aa) purified from E. coli
Format:	**State:** Liquid purified Ig fraction **Purification:** Affinity Chromatography on Protein G **Buffer System:** PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol
Applications:	**ELISA.** **Western blot** (1/1,000-1/2,000). Cell lysates of HeLa (40 µg) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human FkBP4 (1/1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. **Immunohistochemistry on Paraffin Embedded Tissue** (1/50-1/100). Paraffin embedded sections of Seminoma (Germ cell tumor) tissue were incubated with anti-Human FKBP4 (1/50) for 2 hours at RT. Antigen retrieval was performed in 0.1M sodium citrate buffer and detected using Diaminobenzidine (DAB). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody recognizes Human FKBP4. Other species not tested.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Product Citations:

Purchased from Acris:

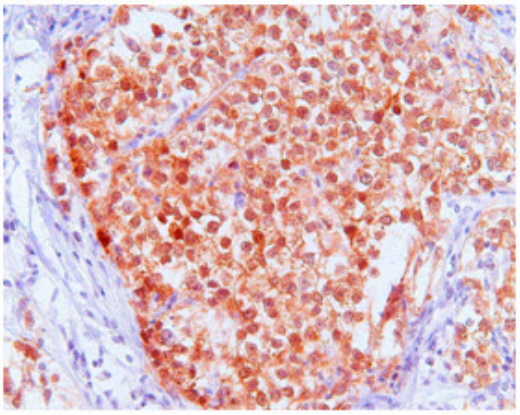
1. Ott M, Litzenburger UM, Rauschenbach KJ, Bunse L, Ochs K, Sahm F, et al. Suppression of TDO-mediated tryptophan catabolism in glioblastoma cells by a steroid-responsive FKBP52-dependent pathway. Glia. 2015 Jan;63(1):78-90. doi: 10.1002/glia.22734. Epub 2014 Aug 5. PubMed PMID: 25132599.

General Readings:

1. Ostrow KL, Park HL, Hoque MO, Kim MS, Liu J, Argani P, et al. Pharmacologic unmasking of epigenetically silenced genes in breast cancer. Clin Cancer Res. 2009 Feb 15;15(4):1184-91. doi: 10.1158/1078-0432.CCR-08-1304. PubMed PMID: 19228724.
2. Ma D, Bai X, Guo S, Jiang Y. The switch I region of Rheb is critical for its interaction with FKBP38. J Biol Chem. 2008 Sep 19;283(38):25963-70. doi: 10.1074/jbc.M802356200. Epub 2008 Jul 25. PubMed PMID: 18658153.

Pictures:

Immunohistochemistry: Paraffin embedded sections of Seminoma (Germ cell tumor) tissue were incubated with anti-human FKBP4 (1:50) for 2 hours at room temperature. Antigen retrieval was performed in 0.1M sodium citrate buffer and Diaminobenzidine (DAB) was used for detection.



Seminoma (Germ cell tumor)

Western blot analysis: Cell lysates of HeLa (40 µg) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human FKBP4 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.