

FKBP5 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6731a**Specification**

FKBP5 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O13451](#)**FKBP5 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 2289**Other Names**

Peptidyl-prolyl cis-trans isomerase FKBP5, PPIase FKBP5, 51 kDa FK506-binding protein, 51 kDa FKBP, FKBP-51, 54 kDa progesterone receptor-associated immunophilin, Androgen-regulated protein 6, FF1 antigen, FK506-binding protein 5, FKBP-5, FKBP54, p54, HSP90-binding immunophilin, Rotamase, FKBP5, AIG6, FKBP51

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6731a](/products/AP6731a) was selected from the N-term region of human FKBP5. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FKBP5 Antibody (N-term) Blocking Peptide - Protein Information**Name** FKBP5**Synonyms** AIG6, FKBP51 {ECO:0000303|PubMed:2814727}**Function**

Immunophilin protein with PPIase and co-chaperone activities (PubMed:[11350175](http://www.uniprot.org/citations/11350175)). Component of unligated steroid receptors heterocomplexes through interaction with heat-shock protein 90 (HSP90). Plays a role in the intracellular trafficking of heterooligomeric forms of steroid hormone receptors maintaining the complex into the cytoplasm when unliganded (PubMed:[12538866](http://www.uniprot.org/citations/12538866)). Acts as a regulator of Akt/AKT1 activity by promoting the interaction between Akt/AKT1 and PHLPP1, thereby

enhancing dephosphorylation and subsequent activation of Akt/AKT1 (PubMed:28147277, PubMed:28363942). Interacts with IKBKE and IKBKB which facilitates IKK complex assembly leading to increased IKBKE and IKBKB kinase activity, NF-kappa-B activation, and IFN production (PubMed:26101251, PubMed:31434731).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q64378}. Nucleus {ECO:0000250|UniProtKB:Q64378}

Tissue Location

Widely expressed, enriched in testis compared to other tissues

FKBP5 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

FKBP5 Antibody (N-term) Blocking Peptide - Images**FKBP5 Antibody (N-term) Blocking Peptide - Background**

The protein is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It is thought to mediate calcineurin inhibition. It also interacts functionally with mature hetero-oligomeric progesterone receptor complexes along with the 90 kDa heat shock protein and P23 protein.

FKBP5 Antibody (N-term) Blocking Peptide - References

Pei,H., Cancer Cell 16 (3), 259-266 (2009)Sarginson,J.E., Am. J. Med. Genet. B Neuropsychiatr. Genet. (2009)