

FKBP6 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16950b**Specification**

FKBP6 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O75344](#)**FKBP6 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8468**Other Names**

Inactive peptidyl-prolyl cis-trans isomerase FKBP6, Inactive PPlase FKBP6, 36 kDa FK506-binding protein, 36 kDa FKBP, FKBP-36, FK506-binding protein 6, FKBP-6, Immunophilin FKBP36, FKBP6, FKBP36

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.

FKBP6 Antibody (C-term) Blocking Peptide - Protein Information**Name** FKBP6**Synonyms** FKBP36**Function**

Has an essential role in spermatogenesis (PubMed:36150389). It is required to repress transposable elements and prevent their mobilization, which is essential for the germline integrity (By similarity). Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons (By similarity). Acts as a co- chaperone via its interaction with HSP90 and is required for the piRNA amplification process, the secondary piRNA biogenesis (By similarity). May be required together with HSP90 in removal of 16 nucleotide ping- pong by-products from Piwi complexes, possibly facilitating turnover of Piwi complexes (By similarity).

Cellular Location

Cytoplasm. Nucleus. Note=In spermatocytes, it colocalizes with PIWIL1 in large cytoplasmic granules (PubMed:36150389). Does not localize to the synaptonemal complex (PubMed:36150389)

Tissue Location

Detected in all tissues examined, with higher expression in testis, heart, skeletal muscle, liver, and kidney

FKBP6 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

FKBP6 Antibody (C-term) Blocking Peptide - Images**FKBP6 Antibody (C-term) Blocking Peptide - 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. The protein may have cis-trans prolyl isomerase activity, and binds to clathrin heavy chain and heat shock protein 72. This gene is found to be deleted in Williams syndrome, and the orthologous gene in mouse is essential for fertility and homologous pairing in male meiosis.

FKBP6 Antibody (C-term) Blocking Peptide - References

Aston, K.I., et al. Hum. Reprod. 25(6):1383-1397(2010) Jarczowski, F., et al. J. Biol. Chem. 284(2):766-773(2009) Jarczowski, F., et al. Biochemistry 47(26):6946-6952(2008) Zhang, W., et al. Reproduction 133(2):511-516(2007) Miyamoto, T., et al. Cell. Mol. Biol. Lett. 11(4):557-569(2006)