

# FKBP6 Rabbit mAb

Catalog # AP76501

## Product Information

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|-------------------|------------------------|
| Application       | WB, IHC-P              |
| Primary Accession | <a href="#">O75344</a> |
| Reactivity        | Rat, Human, Mouse      |
| Host              | Rabbit                 |
| Clonality         | Monoclonal Antibody    |
| Isotype           | IgG                    |
| Conjugate         | Unconjugated           |
| Purification      | Affinity Purified      |
| Calculated MW     | 37214                  |

## Additional Information

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|-------------|-------------------------------------------------------------------------------------------------|
| Gene ID     | 8468                                                                                            |
| Other Names | FKBP6                                                                                           |
| Dilution    | WB~~1:1000 IHC-P~~N/A                                                                           |
| Format      | Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA. |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.        |

## Protein Information

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| Name              | FKBP6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Synonyms          | FKBP36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Function          | Has an essential role in spermatogenesis (PubMed: <a href="#">36150389</a> ). 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

## Background

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Inactive peptidyl-prolyl cis-trans isomerase FKBP6 (FKBP6), also known as 36 kDa FK506-binding protein (36 kDa FKBP; FKBP-36), is a member of a gene family that contains a prolyl isomerase/FK506 binding domain and tetratricopeptide protein-protein interaction domains(PMID: 9782077). It has been linked to the secondary piRNA biogenesis in fetal male mouse germ cells ( PMID: 22902560).

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