

## Anti-FKBP51 Monoclonal Antibody

**Catalog # ABO14711** 

## **Specification**

# **Anti-FKBP51 Monoclonal Antibody - Product Information**

**Application** WB, IHC, IF, ICC, IP, FC

**Primary Accession** Q13451 **Rabbit** Host Isotype Rabbit IgG Reactivity Rat, Human Clonality Monoclonal **Format** Liquid

Description

Anti-FKBP51 Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Rat.

# **Anti-FKBP51 Monoclonal Antibody - Additional Information**

**Gene ID 2289** 

### **Other Names**

Peptidyl-prolyl cis-trans isomerase FKBP5, PPlase FKBP5, 5.2.1.8, 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 {ECO:0000303|PubMed:28147277}

### **Application Details**

WB 1:500-1:2000<br/>br>IHC 1:50-1:200<br/>br>ICC/IF 1:50-1:200<br/>br>IP 1:50<br/>br>FC 1:50

## **Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

# **Immunogen**

A synthesized peptide derived from human FKBP51

#### **Purification**

Affinity-chromatography

Store at -20°C for one year. For short term Storage

storage and frequent use, store at 4°C for up to one month. Avoid repeated

freeze-thaw cycles.

# **Anti-FKBP51 Monoclonal Antibody - Protein Information**

Name FKBP5



## Synonyms AIG6, FKBP51 {ECO:0000303|PubMed:2814727

#### **Function**

Immunophilin protein with PPlase and co-chaperone activities (PubMed:<a href="http://www.uniprot.org/citations/11350175" target="\_blank">11350175</a>). 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:<a href="http://www.uniprot.org/citations/12538866" target="\_blank">12538866</a>). 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:<a href="http://www.uniprot.org/citations/28147277" target="\_blank">28147277</a>, PubMed:<a href="http://www.uniprot.org/citations/28363942" target="\_blank">28363942</a>). 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:<a href="http://www.uniprot.org/citations/26101251" target="\_blank">26101251</a>, PubMed:<a href="http://www.uniprot.org/citations/31434731" target="\_blank">31434731</a>, PubMed:<a href="http://www.uniprot.org/citations/31434731" target="\_blank">31434731</a>, PubMed:<a href="http://www.uniprot.org/citations/31434731" target="\_blank">31434731</a>.

#### **Cellular Location**

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

#### **Tissue Location**

Widely expressed, enriched in testis compared to other tissues

### **Anti-FKBP51 Monoclonal Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

### Anti-FKBP51 Monoclonal Antibody - Images

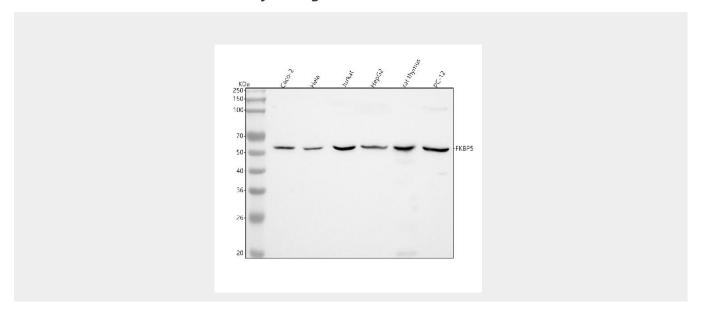




Figure 1. Western blot analysis of FKBP5 using anti-FKBP5 antibody (M04182).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human CACO-2 whole cell lysates,

Lane 2: human Hela whole cell lysates,

Lane 3: human Jurkat whole cell lysates,

Lane 4: human HepG2 whole cell lysates,

Lane 5: rat thymus tissue lysates,

Lane 6: rat PC-12 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FKBP5 antigen affinity purified monoclonal antibody (Catalog # M04182) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FKBP5 at approximately 51 kDa. The expected band size for FKBP5 is at 51 kDa.

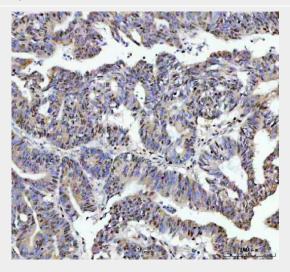


Figure 2. IHC analysis of FKBP5 using anti-FKBP5 antibody (M04182).

FKBP5 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-FKBP5 Antibody (M04182) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



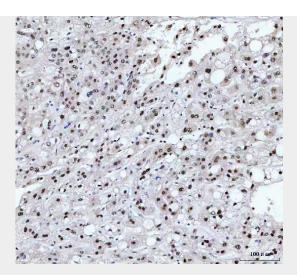


Figure 3. IHC analysis of FKBP5 using anti-FKBP5 antibody (M04182).

FKBP5 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-FKBP5 Antibody (M04182) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

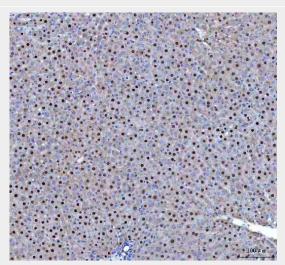


Figure 4. IHC analysis of FKBP5 using anti-FKBP5 antibody (M04182).

FKBP5 was detected in a paraffin-embedded section of rat liver tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-FKBP5 Antibody (M04182) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.