

Datasheet for ABIN2486502  
**anti-FKBP5 antibody (Atto 390)**



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2 Images

## Overview

|              |   |
|--------------|---|
| Quantity:    | 100 µg  |
| Target:      | FKBP5   |
| Reactivity:  | Human   |
| Host:        | Mouse   |
| Clonality:   | Monoclonal  |
| Conjugate:   | This FKBP5 antibody is conjugated to Atto 390                             |
| Application: | Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC) |

## Product Details

|                   |   |
|-------------------|---|
| Immunogen:        | Synthetic peptide corresponding to the residues of human FKBP51 |
| Clone:            | Hi51B   |
| Isotype:          | IgG1  |
| Specificity:      | Detects ~51 kDa.  |
| Cross-Reactivity: | Dog, Hamster, Human, Mouse, Rabbit, Rat                         |
| Purification:     | Protein G Purified  |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | FKBP5   |
| Alternative Name: | FKBP51 ( <a href="#">FKBP5 Products</a> )   |
| Background:       | HSP90 is crucial to cellular signaling by its regulation of the folding, activity, and stability of a |

## Target Details

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wide range of client proteins. These client protein complexes may also contain one or more cochaperones (1). One class of HSP90-binding cochaperone is composed of proteins with a characteristic tetratricopeptide repeat (TPR) domain that forms an HSP90 binding site. Among the TPR cochaperones of HSP90 are Hop/Sti1, protein phosphatase PP5, and members of both the FK506- and cyclosporin A-binding families of immunophilins (2). FK506-binding protein 51 (FKBP51) and FKBP52 are large molecular weight immunophilins that are part of the mature glucocorticoid receptor (GR) heterocomplex (3). The N terminal domain of each protein binds FK506 and has peptidyl-prolyl isomerase (PPIase) activity that converts prolyl peptide bonds within target proteins from cis- to trans- proline. The C-terminal domains contain the TPR repeats involved in protein-protein interactions with the HSP90 (4). Although FKBP52 and FKBP51 share ~75 % sequence similarity, they affect hormone binding by glucocorticoid receptor in opposing manners and have different HSP90-binding characteristics (3). FK506 binding protein 51 kDa (FKBP51 or otherwise referred to as FKBP54) has been identified as a progestininducible gene. This protein is predominantly expressed in murine T cells but in humans, it is abundantly expressed in numerous tissues at levels many times higher than FKBP12. The FKBP51 gene is known to be induced by glucocorticoids (5).

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Gene ID: 2289

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NCBI Accession: [NP\\_001139247](#)

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UniProt: [Q13451](#)

## Application Details

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Application Notes:

- WB (1:2000)
- ICC/IF (1:1000)
- optimal dilutions for assays should be determined by the user.

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Comment: A 1:2000 dilution was sufficient for detection of FKBP51 in ~50 µg total protein using WB analysis.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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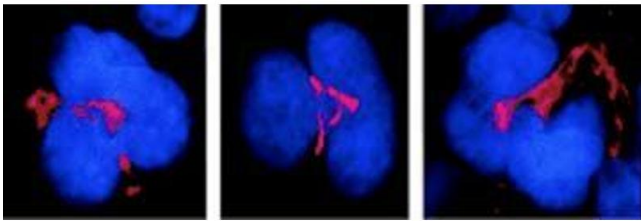
Buffer: PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

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## Handling

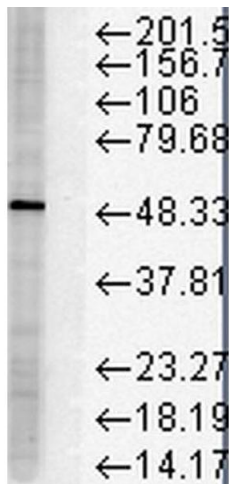
|                    |  |
|--------------------|--|
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | 4 °C   |
| Storage Comment:   | Conjugated antibodies should be stored at 4°C  |

## Images



### Immunofluorescence (fixed cells)

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-FKBP51 Monoclonal Antibody, Clone Hi51B . Tissue: MK cells. Species: Mouse. Primary Antibody: Mouse Anti-FKBP51 Monoclonal Antibody at 1:1000. Secondary Antibody: APC Goat Anti-Mouse (red). Counterstain: DAPI (blue) nuclear stain. Courtesy of: the Hospital Henri Mondor, France.



### Western Blotting

**Image 2.** Western Blot analysis of Human HeLa cell lysates showing detection of FKBP51 protein using Mouse Anti-FKBP51 Monoclonal Antibody, Clone Hi51B . Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-FKBP51 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.