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Datasheet for ABIN2486531  
**anti-FKBP4 antibody (HRP)**

5 Images

Overview

|              |  |
|--------------|--|
| Quantity:    | 100 µg   |
| Target:      | FKBP4  |
| Reactivity:  | Human  |
| Host:        | Mouse  |
| Clonality:   | Monoclonal   |
| Conjugate:   | This FKBP4 antibody is conjugated to HRP   |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP),<br>Immunofluorescence (IF), Immunocytochemistry (ICC) |

Product Details

|                   |  |
|-------------------|--|
| Immunogen:        | Synthetic peptide corresponding to the residues of human FKBP52    |
| Clone:            | Hi52C  |
| Isotype:          | IgG2a  |
| Specificity:      | Detects ~52 kDa. Heavy chain migrates close to FKBP52 on SDS PAGE. |
| Cross-Reactivity: | Dog, Hamster, Human, Mouse, Rat                                    |
| Purification:     | Protein G Purified   |

Target Details

|                   |   |
|-------------------|---|
| Target:           | FKBP4                                     |
| Alternative Name: | FKBP52 ( <a href="#">FKBP4 Products</a> ) |

## Target Details

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**Background:** HSP90 is crucial to cellular signaling by its regulation of the folding, activity, and stability of a 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:** 2288

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**NCBI Accession:** [NP\\_002005](#)

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**UniProt:** [Q02790](#)

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**Pathways:** [Intracellular Steroid Hormone Receptor Signaling Pathway](#)

## Application Details

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**Application Notes:**

- WB (1:2000)
- IHC (1:250)
- ICC/IF (1:1000)
- IP (5 µg)
- optimal dilutions for assays should be determined by the user.

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**Comment:** 0.5 µg/ml was sufficient for detection of FKBP52 in 20 µg total protein using WB by colorimetric immunoblot analysis using Goat Anti-Mouse IgG:HRP as the secondary.

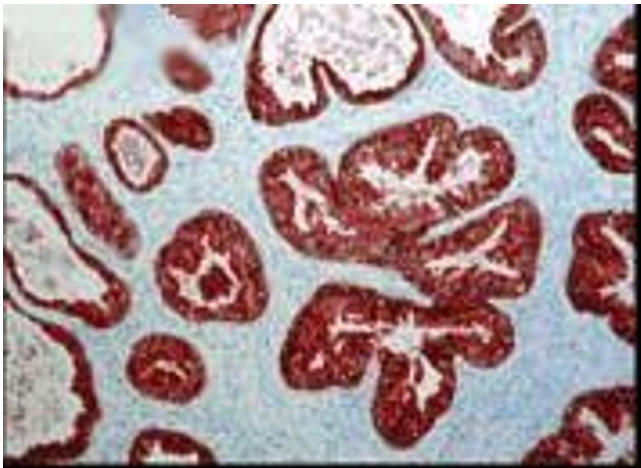
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**Restrictions:** For Research Use only

## Handling

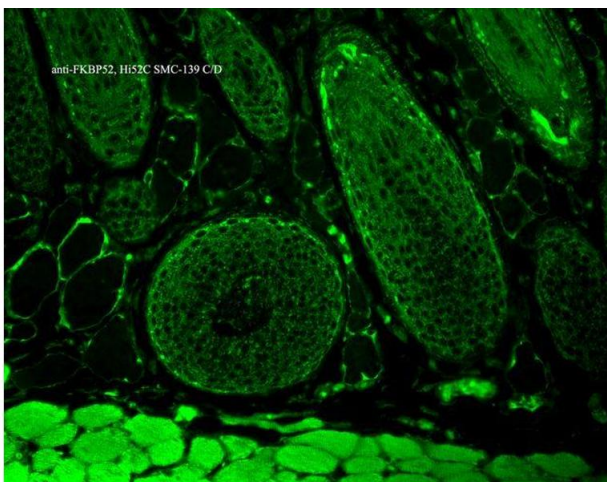
|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Concentration:     | 1 mg/mL  |
| Buffer:            | PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated                                     |
| Preservative:      | Sodium azide   |
| 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



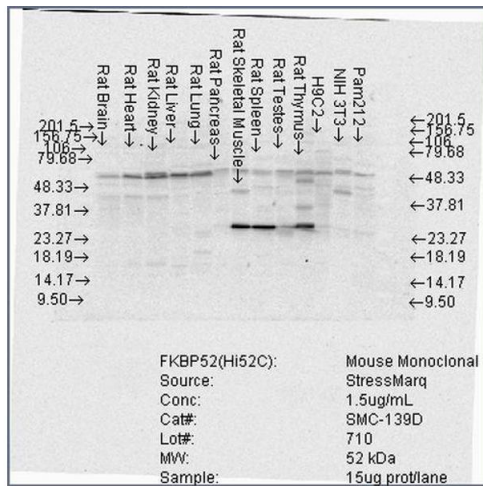
### Immunohistochemistry

**Image 1.** Immunohistochemistry analysis using Mouse Anti-FKBP52 Monoclonal Antibody, Clone Hi52C . Tissue: prostate tissue (ductal epithelial cells). Species: Human. Primary Antibody: Mouse Anti-FKBP52 Monoclonal Antibody at 1:1000. Courtesy of: David F. Smith, Mayo Clinic, USA.



### Immunohistochemistry

**Image 2.** Immunohistochemistry analysis using Mouse Anti-FKBP52 Monoclonal Antibody, Clone Hi52C . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-FKBP52 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Epidermis.



### Western Blotting

**Image 3.** Western Blot analysis of Rat Brain, Heart, Kidney, Liver, Pancreas, Skeletal muscle, Spleen, Testes, Thymus cell lysates showing detection of FKBP52 protein using Mouse Anti-FKBP52 Monoclonal Antibody, Clone Hi52C . Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-FKBP52 Monoclonal Antibody at 1.5 µg/mL for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2486531.