

## Anti-FKBP51 Antibody (6E556)

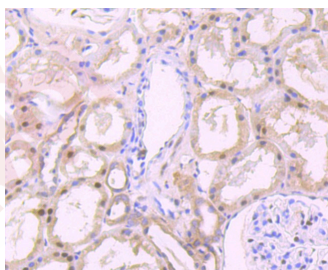
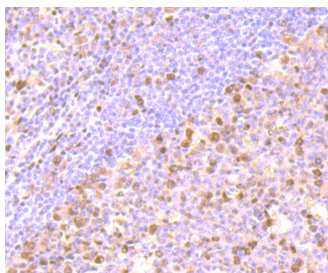
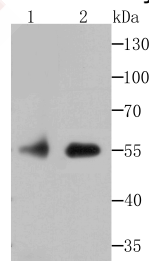
### Product Details

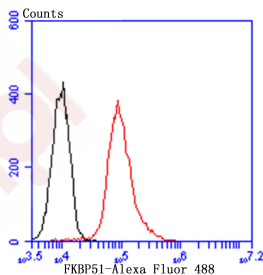
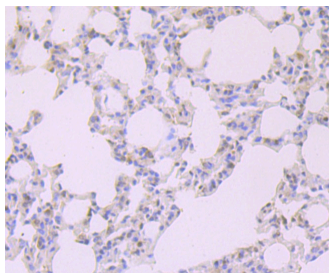
|                   |                        |
|-------------------|------------------------|
| Ig Type:          | IgG                    |
| Reactivity:       | Human,Rat              |
| Conjugation:      | Unconjugated           |
| Molecular Weight: | Theoretical: 51 kDa.   |
| Clone:            | 6E556                  |
| Purification:     | ProA affinity purified |

### Applications

#### Verified Activity:

1. Western blot analysis of FKBP51 on rat kidney tissue and Daudi cell lysate using anti-FKBP51 antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-FKBP51 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-FKBP51 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded rat lung tissue tissue using anti-FKBP51 antibody. Counter stained with hematoxylin.
5. Flow cytometric analysis of Daudi cells with FKBP51 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: FCM,ICC/IF,IHC,IP,WB

Recommended WB: 1:500-2000; IHC: 1:50-200; ICC/IF: 1:50-200; IP: 1:50; FCM: 1:50

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q13451

Synonyms: FKBP5\_HUMAN;Androgen-regulated protein 6;T cell FK506 binding protein;FK506-binding protein 5;MGC111006;OTTHUMP00000016268;Peptidyl prolyl cis trans isomerase;54 kDa progesterone receptor-associated immunophilin;FKBP5;54 kDa progesterone receptor associated immunophilin;Peptidyl-prolyl cis-trans isomerase FKBP5;P54;FF1 antigen;HSP90 binding immunophilin;PPIase FKBP5;FKBP 51;PPIase;FK506 binding protein 5;51 kDa FKBP;Ptg 10;51 kDa FK506 binding protein 5;FKBP54;Rotamase;AIG6;Peptidylprolyl cis trans isomerase; 51 kDa FK506-binding protein;51 kDa FK506 binding protein;FKBP 5;Ptg10;Androgen regulated protein 6;FKBP-5;AIG 6;FKBP 54;FKBP-51;HSP90-binding immunophilin

### Research Background

The immunophilins are a highly conserved family of cis-trans peptidyl-prolyl isomerases that bind to and mediate the effects of immunosuppressive drugs, such as cyclosporin, FK506 and rapamycin. Several related immunophilins, FKBP12, FKBP51 and FKBP52, are characterized as cytosolic FK506-binding proteins, and following ligand binding, they functionally inhibit the phosphatase activity of calcineurin. The ubiquitously expressed FKBP12 also associates with the cytoplasmic domain of the TGF $\beta$ -type I receptor, where it stabilizes the inactive conformation of the receptor and blocks the activation of the TGF $\beta$  pathway. FKBP51 and FKBP52 are two highly related proteins. FKBP51 is predominantly expressed in T cells and is induced by glucocorticoids. FKBP51 mediates the effects of FK506 and rapamycin by inhibiting intracellular calcineurin activity, and by blocking T-cell activation and proliferation. FKBP52, known also as FKBP-59 or heat shock protein 56, is expressed in a variety of tissues and can also associate with the heat shock protein (hsp90) in mature steroid receptor complexes (6,8).

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