

## FKBP51 Rabbit mAb

Catalog No: #49845



Package Size: #49845-1 50ul #49845-2 100ul

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Support: tech@signalwayantibody.com

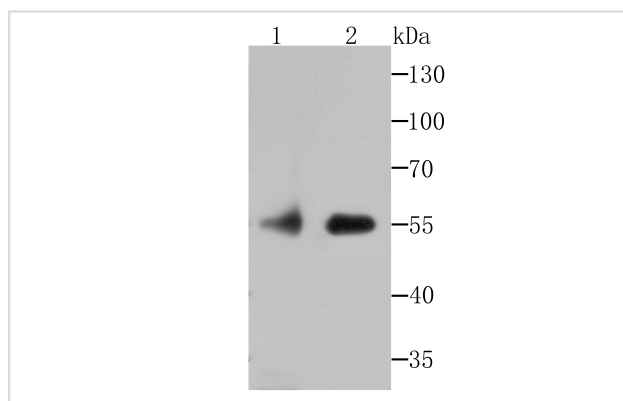
## Description

Product Name	FKBP51 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB95-39
Purification	ProA affinity purified
Applications	WB,IHC,IP,FC
Species Reactivity	Hu, Rt
Immunogen Description	Recombinant protein
Other Names	51 kDa FK506 binding protein 5 antibody 51 kDa FK506 binding protein antibody 51 kDa FK506-binding protein antibody 51 kDa FKBP antibody 54 kDa progesterone receptor associated immunophilin antibody 54 kDa progesterone receptor-associated immunophilin antibody AIG 6 antibody AIG6 antibody Androgen regulated protein 6 antibody Androgen-regulated protein 6 antibody FF1 antigen antibody FK506 binding protein 5 antibody FK506-binding protein 5 antibody FKBP 5 antibody FKBP 51 antibody FKBP 54 antibody FKBP-5 antibody FKBP-51 antibody FKBP5 antibody FKBP5_HUMAN antibody FKBP54 antibody HSP90 binding immunophilin antibody HSP90-binding immunophilin antibody MGC111006 antibody OTTHUMP00000016268 antibody P54 antibody Peptidyl prolyl cis trans isomerase antibody Peptidyl-prolyl cis-trans isomerase FKBP5 antibody Peptidylprolyl cis trans isomerase antibody PPIase antibody PPIase FKBP5 antibody Ptg 10 antibody Ptg10 antibody Rotamase antibody T cell FK506 binding protein antibody
Accession No.	Swiss-Prot#:Q13451
Uniprot	Q13451
GeneID	2289;
Calculated MW	51 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

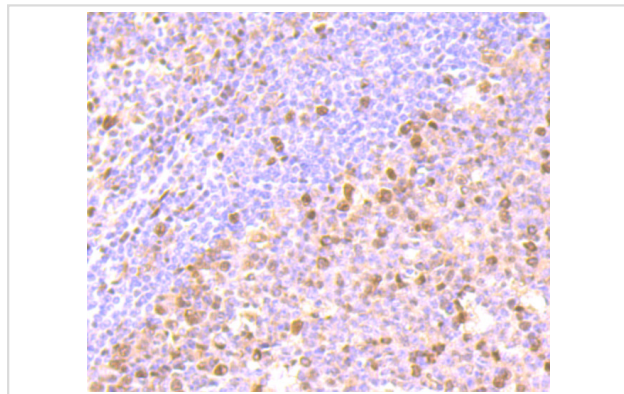
## Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 FC: 1:50-1:100

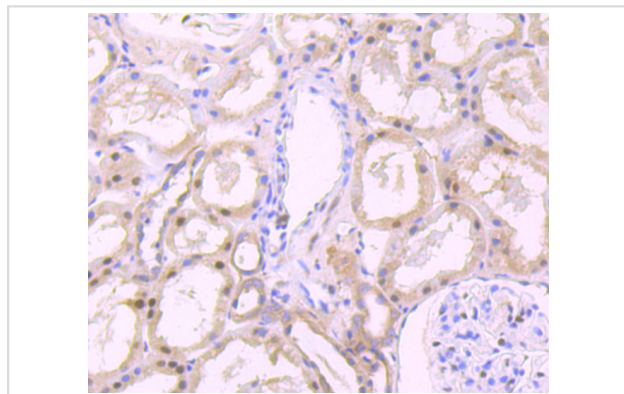
## Images



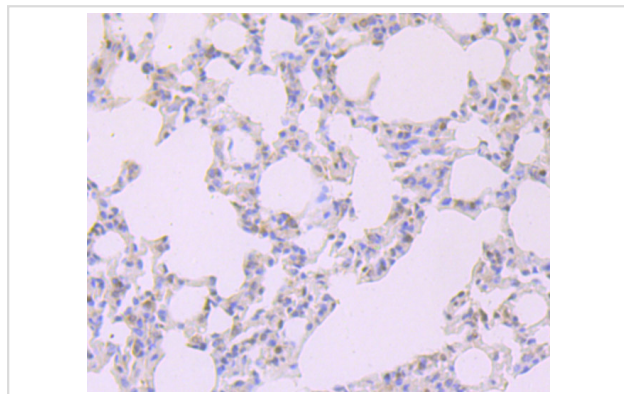
Western blot analysis of FKBP51 on rat kidney tissue and Daudi cell lysate using anti-FKBP51 antibody at 1/500 dilution.



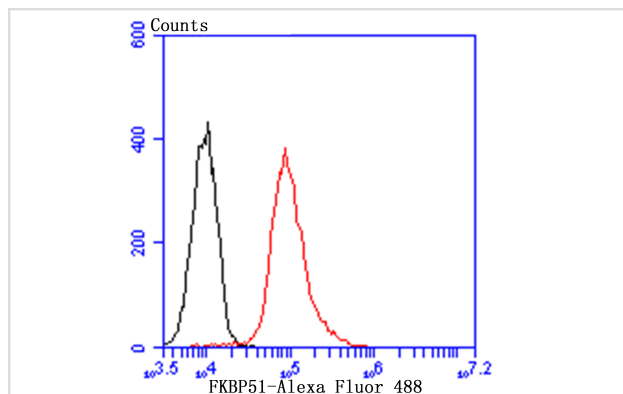
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-FKBP51 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-FKBP51 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded rat lung tissue using anti-FKBP51 antibody. Counter stained with hematoxylin.



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.

## 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).

## References

Note: This product is for in vitro research use only