Technical Data Sheet

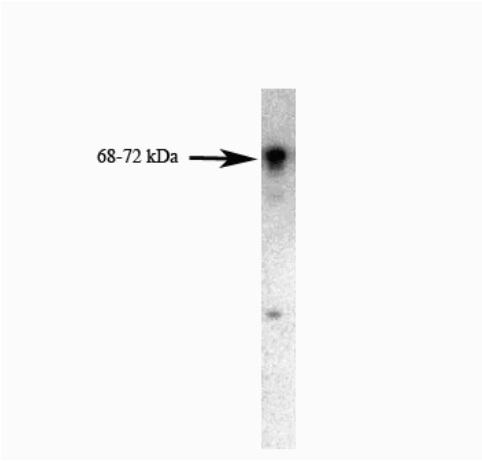
Purified Mouse Anti-FKBP65

Product Information

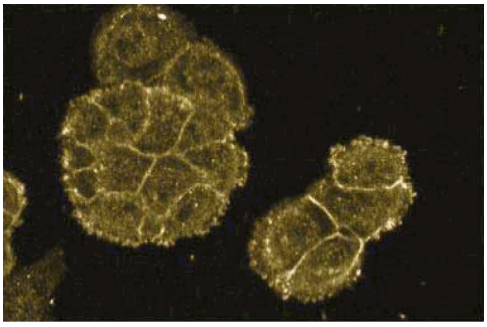
Material Number:	**610648**
Alternate Name:	FK506 Binding Protein-65
Size:	50 µg
Concentration:	250 µg/ml
Clone:	25/FKBP65
Immunogen:	Mouse FKBP65 aa. 434-576
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Mouse, Human
Target MW:	68-72 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

FK506, one of multiple potent compounds that block T cell proliferation, is used for immunosuppressive therapy. Several FK506-binding proteins (FKBPs) have been identified in the search for intracellular targets for FK506. These include FKBP12, FKBP13, FKBP51, and FKBP52. The immunosuppressive effects of FK506 and FKBPs result from the inhibition of the calcineurin phosphatase, a well known component of the signaling cascade leading to IL-2 production. FKBP65 is another member of the FKBP protein family and contains the characteristic peptidylprolyl *cis-trans*-isomerase activity. FKBP65 has been reported to be expressed in the lung, testis, brain, heart, and spleen. Although it has a predicted molecular weight of 65 kDa, FKBP65 has been observed to migrate ranging from 68-72 kDa in SDS electrophoresis gels, perhaps, due to glycosylation and/or phosphorylation.



Western blot analysis of FKBP65 on a PC-12 cell lysate (Rat neuroblastoma; ATCC CRL-1721) using 0.5 µg/mL of the Mouse Anti-FKBP65 antibody.



Immunofluorescence staining of A431 cells (Human epithelial carcinoma; ATCC CRL-1555).

Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

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Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
611454	PC12 Cell Lysate	500 µg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Coss MC, Winterstein D, Sowder RC 2nd, Simek SL. Molecular cloning, DNA sequence analysis, and biochemical characterization of a novel 65-kDa FK506-binding protein (FKBP65). *J Biol Chem.* 1995; 270(49):29336-29341. (Biology)

Patterson CE, Schaub T, Coleman EJ, Davis EC. Developmental regulation of FKBP65. An ER-localized extracellular matrix binding-protein. *Mol Biol Cell.* 2000; 11(11):3925-3935. (Biology: Immunofluorescence, Immunohistochemistry, Western blot)