

FKBP15 Antibody

FKBP15: FK506-binding protein homolog, FKBP133, WASP and FKBP-like, WAFL

CATALOG No.: 5135

Background:

FKBP15, also known as FKBP133, is a member of the FK506-binding protein family, a group of proteins initially identified as immunophilins, targets for the immunosuppressant drugs FK506 and Rapamycin (1,2). FKBP15 is expressed in the developing nervous system and contains a domain similar to Wiskott-Aldrich syndrome protein homology region 1 (WH1) in addition to the FK506-binding protein motif (1). FKBP15 is distributed along the axonal shafts and partially co-localizes with F-actin in the growth cones of dorsal root ganglion neurons; overexpression of FKBP15 resulted in the number of filopodia in transfected neurons, suggesting that FKBP15 modulates growth cone behavior (1). FKBP15 has also been shown to associate with both microtubules and the actin filament systems and disruption of its expression by RNAi resulted in delayed transport of early endosomes in HeLa cells indicating that FKBP15 is also involved in the transport of early endosomes (3). At least three isoforms of FKBP15 are known to exist.

SOURCE:

Rabbit polyclonal FKBP15 antibody was raised against a 15 amino acid peptide from near the amino terminus of human FKBP15 (GenBank accession no. NP_056073).

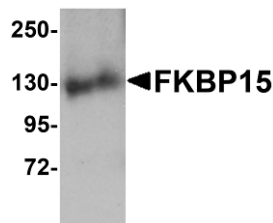
APPLICATION:

FKBP15 antibody can be used for detection of FKBP15 by Western blot at 1 - 2 µg/ml. (Optimal dilution should be determined by user.) 3T3 cell lysate can be used as positive control. FKBP15 antibody is human, mouse and rat reactive.

For research use only.

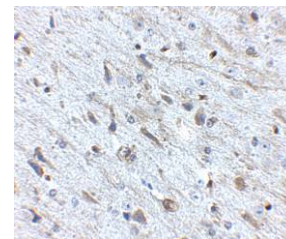
STORAGE:

FKBP15 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of FKBP15 in 3T3 cell lysate with FKBP15 antibody at 1 µg/ml.

Immunohistochemistry of FKBP15 in mouse brain tissue with FKBP15 antibody at 2.5 µg/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **5135P**.
3T3 Cell Lysate, Catalog No. **1282**.

REFERENCES:

1. Nakajima O, Nakamura F, Yamashita N, et al. FKBP133: A novel mouse FK506-binding protein homolog alters growth cone morphology. *Biochem. Biophys. Res. Comm.* 2006; 346:140-9.
2. Snyder SH, Lai MM, and Burnett PE. Immunophilins in the nervous system. *Neuron* 1998; 21:283-94.
3. Viklund I-M, Aspenstrom P, Meas-Yedid V, et al. WAFL, a new protein involved in regulation of early endocytic transport at the intersection of actin and microtubule dynamics. *Exp. Cell Res.* 2009; 315:1040-52.
(09-01D)