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FKBP15 Antibody
Catalog # ASC10890

Specification

FKBP15 Antibody - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q5T1M5
Other Accession	NP_056073, 150010552
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**FKBP15 antibody can be used for detection of FKBP15 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

FKBP15 Antibody - Additional Information

Gene ID **23307**

Target/Specificity
FKBP15;

Reconstitution & Storage
FKBP15 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
FKBP15 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FKBP15 Antibody - Protein Information

Name FKBP15

Synonyms KIAA0674

Function
May be involved in the cytoskeletal organization of neuronal growth cones. Seems to be inactive as a PPIase (By similarity). Involved in the transport of early endosomes at the level of transition between microfilament-based and microtubule-based movement.

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q6P9Q6}. Cell projection, axon {ECO:0000250|UniProtKB:Q6P9Q6}. Early endosome. Note=Present in axons and neuronal growth cones. {ECO:0000250|UniProtKB:Q6P9Q6}

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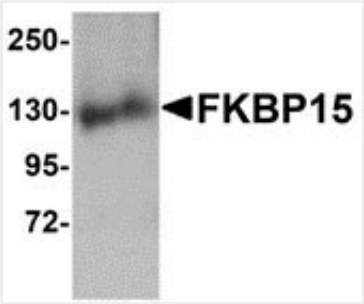
FKBP15 Antibody - Protocols

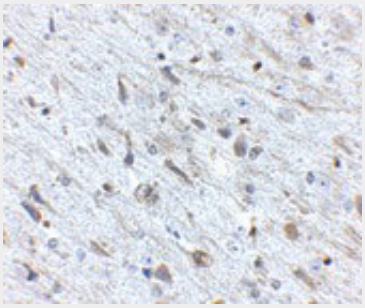
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

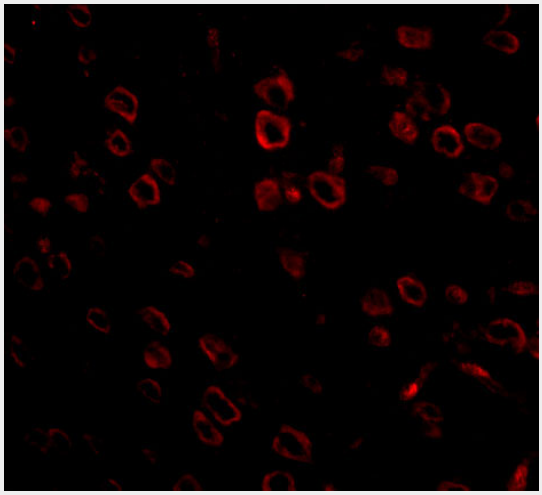
FKBP15 Antibody - Images



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.



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Immunofluorescence of FKBP15 in mouse brain tissue with FKBP15 antibody at 20 µg/mL.

FKBP15 Antibody - Background

FKBP15 Antibody: 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 immunosupressant drugs FK506 and Rapamycin. 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. 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. 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. At least three isoforms of FKBP15 are known to exist.

FKBP15 Antibody - References

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.
Snyder SH, Lai MM, and Burnett PE. Immunophilins in the nervous system. Neuron1998; 21:283-94.
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.