

# FKBP15 Antibody

Catalog # ASC10890

## Product Information

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application           | WB, IF, E, IHC-P                                                                                                                                                                                    |
| Primary Accession     | <a href="#">Q5T1M5</a>                                                                                                                                                                              |
| Other Accession       | <a href="#">NP_056073</a> , <a href="#">150010552</a>                                                                                                                                               |
| Reactivity            | Human, Mouse, Rat                                                                                                                                                                                   |
| Host                  | Rabbit                                                                                                                                                                                              |
| Clonality             | Polyclonal                                                                                                                                                                                          |
| Isotype               | IgG                                                                                                                                                                                                 |
| Calculated MW         | 133630                                                                                                                                                                                              |
| Concentration (mg/ml) | 1 mg/mL                                                                                                                                                                                             |
| Conjugate             | Unconjugated                                                                                                                                                                                        |
| 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. |

## Additional Information

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| Gene ID                  | 23307                                                                                                                                                                                                                                          |
| Other Names              | FK506-binding protein 15, FKBP-15, 133 kDa FK506-binding protein, 133 kDa FKBP, FKBP-133, WASP and FKBP-like, WAFL, FKBP15, KIAA0674                                                                                                           |
| Target/Specificity       | FKBP15;                                                                                                                                                                                                                                        |
| Reconstitution & Storage | FKBP15 antibody can be stored at 4°C for three months and -20°C, 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.                                                                                                                                              |

## Protein Information

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| 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                                                                                                                            |

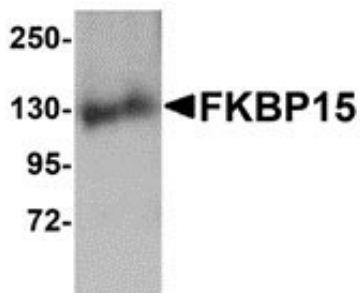
## Background

**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 immunosuppressant 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.

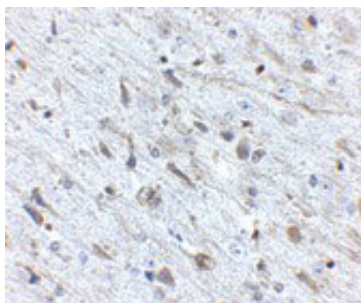
## References

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. *Neuron*1998; 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.

## Images

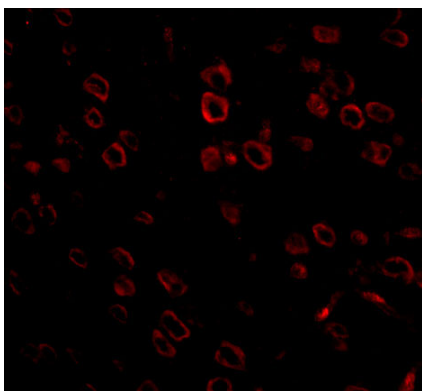


Western blot analysis of FKBP15 in 3T3 cell lysate with FKBP15 antibody at 1 µg/mL.



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

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



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