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Goat Anti-MAPRE3 Antibody

Peptide-affinity purified goat antibody
Catalog # AF2231a

Specification

Goat Anti-MAPRE3 Antibody - Product Information

Application	**WB**
Primary Accession	Q9UPY8
Other Accession	NP_036458, 22924, 100732 (mouse)
Reactivity	**Human, Mouse**
Predicted	**Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**31982**

Goat Anti-MAPRE3 Antibody - Additional Information

Gene ID 22924

Other Names
Microtubule-associated protein RP/EB family member 3, EB1 protein family member 3, EBF3, End-binding protein 3, EB3, RP3, MAPRE3

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-MAPRE3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MAPRE3 Antibody - Protein Information

Name MAPRE3

Function
Plus-end tracking protein (+TIP) that binds to the plus-end of microtubules and regulates the dynamics of the microtubule cytoskeleton (PubMed:28814570, PubMed:19255245). Promotes microtubule growth (PubMed:<a href="http://www.uniprot.org/citations/28814570"

target="_blank">28814570, PubMed:19255245). May be involved in spindle function by stabilizing microtubules and anchoring them at centrosomes (PubMed:28814570, PubMed:19255245). Also acts as a regulator of minus- end microtubule organization: interacts with the complex formed by AKAP9 and PDE4DIP, leading to recruit CAMSAP2 to the Golgi apparatus, thereby tethering non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement (PubMed:28814570). Promotes elongation of CAMSAP2-decorated microtubule stretches on the minus-end of microtubules (PubMed:28814570).

Cellular Location
Cytoplasm, cytoskeleton. Note=Associated with the microtubule network. Detected at the plus end of microtubules

Tissue Location
Predominantly expressed in brain and muscle.

Goat Anti-MAPRE3 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

Goat Anti-MAPRE3 Antibody - Images



AF2231a (0.1 µg/ml) staining of Human Brain (Amygdala) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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Goat Anti-MAPRE3 Antibody - Background

The protein encoded by this gene is a member of the RP/EB family of genes. The protein localizes to the cytoplasmic microtubule network and binds APCL, a homolog of the adenomatous polyposis coli tumor suppressor gene.

Goat Anti-MAPRE3 Antibody - References

Molecular insights into mammalian end-binding protein heterodimerization. De Groot CO, et al. J Biol Chem, 2010 Feb 19. PMID 20008324.
Mitotic regulation of the stability of microtubule plus-end tracking protein EB3 by ubiquitin ligase SIAH-1 and Aurora mitotic kinases. Ban R, et al. J Biol Chem, 2009 Oct 9. PMID 19696028.
Mammalian end binding proteins control persistent microtubule growth. Komarova Y, et al. J Cell Biol, 2009 Mar 9. PMID 19255245.
p53 downstream target DDA3 is a novel microtubule-associated protein that interacts with end-binding protein EB3 and activates beta-catenin pathway. Hsieh PC, et al. Oncogene, 2007 Jul 26. PMID 17310996.
Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.