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Goat Anti-MARK4L Antibody
Peptide-affinity purified goat antibody
Catalog # AF1653a

Specification

Goat Anti-MARK4L Antibody - Product Information

Application	**WB, FC, Pep-ELISA**
Primary Accession	Q96L34
Other Accession	NP_113605, 57787
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5mg/ml**
Isotype	**IgG**
Calculated MW	**82520**

Goat Anti-MARK4L Antibody - Additional Information

Gene ID 57787

Other Names
MAP/microtubule affinity-regulating kinase 4, 2.7.11.1, MAP/microtubule affinity-regulating kinase-like 1, MARK4, KIAA1860, MARKL1

Dilution
WB~~1:1000
FC~~1:10~50
Pep-ELISA~~N/A

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-MARK4L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-MARK4L Antibody - Protein Information

Name MARK4 {ECO:0000303|PubMed:14594945, ECO:0000312|HGNC:HGNC:13538}

Function
Serine/threonine-protein kinase (PubMed:<a href="http://www.uniprot.org/citations/14594945"

target="_blank">14594945, PubMed:15009667, PubMed:23184942, PubMed:23666762). Phosphorylates the microtubule-associated protein MAPT/TAU (PubMed:14594945, PubMed:23666762). Also phosphorylates the microtubule-associated proteins MAP2 and MAP4 (PubMed:14594945). Involved in regulation of the microtubule network, causing reorganization of microtubules into bundles (PubMed:14594945, PubMed:25123532). Required for the initiation of axoneme extension during cilium assembly (PubMed:23400999). Regulates the centrosomal location of ODF2 and phosphorylates ODF2 in vitro (PubMed:23400999). Plays a role in cell cycle progression, specifically in the G1/S checkpoint (PubMed:25123532). Reduces neuronal cell survival (PubMed:15009667). Plays a role in energy homeostasis by regulating satiety and metabolic rate (By similarity). Promotes adipogenesis by activating JNK1 and inhibiting the p38MAPK pathway, and triggers apoptosis by activating the JNK1 pathway (By similarity). Phosphorylates mTORC1 complex member RPTOR and acts as a negative regulator of the mTORC1 complex, probably due to disruption of the interaction between phosphorylated RPTOR and the RRAGA/RRAGC heterodimer which is required for mTORC1 activation (PubMed:23184942). Involved in NLRP3 positioning along microtubules by mediating NLRP3 recruitment to microtubule organizing center (MTOC) upon inflammasome activation (PubMed:28656979).

Cellular Location
Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, microtubule organizing center. Cytoplasm, cytoskeleton, cilium basal body Cytoplasm, cytoskeleton, cilium axoneme Cytoplasm Cell projection, dendrite. Note=Localized at the tips of neurite-like processes in differentiated neuroblast cells. Detected in the cytoplasm and neuropil of the hippocampus

Tissue Location
Ubiquitous. Isoform 2 is brain-specific (PubMed:11326310). Expressed at highest levels in brain and testis Also expressed in heart, lung, liver, muscle, kidney and spleen (PubMed:14594945).

Goat Anti-MARK4L 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-MARK4L Antibody - Images

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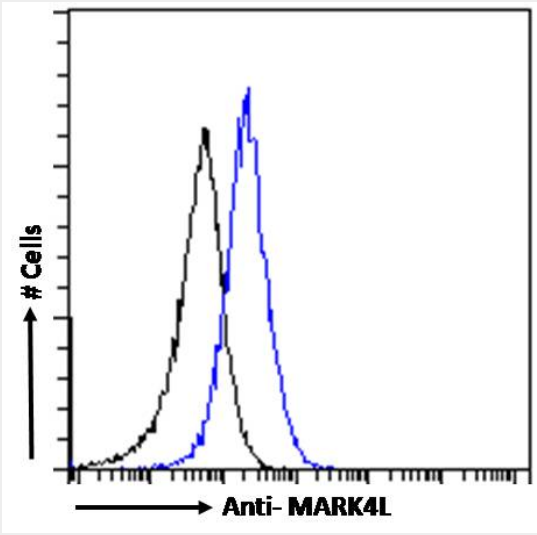
EB05383 (1µg/ml) staining of U251 cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB05383 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) fol

Goat Anti-MARK4L Antibody - References

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891. Genome-wide analysis of genetic loci associated with Alzheimer disease. Seshadri S, et al. JAMA, 2010 May 12. PMID 20460622. Multiple localization of endogenous MARK4L protein in human glioma. Magnani I, et al. Cell Oncol, 2009. PMID 19759416. Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732. Proteomic analysis reveals Hrs ubiquitin-interacting motif-mediated ubiquitin signaling in multiple cellular processes. Pridgeon JW, et al. FEBS J, 2009 Jan. PMID 19019082.