Goat Anti-PICK1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1825a

Specification

Goat Anti-PICK1 Antibody - Product Information

<table>
<thead>
<tr>
<th>Application</th>
<th>WB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Accession</td>
<td>Q9NRD5</td>
</tr>
<tr>
<td>Other Accession</td>
<td>NP_001034673, 9463, 18693 (mouse), 84591 (rat)</td>
</tr>
<tr>
<td>Reactivity</td>
<td>Mouse, Rat</td>
</tr>
<tr>
<td>Predicted</td>
<td>Human, Pig, Dog, Cow</td>
</tr>
<tr>
<td>Host</td>
<td>Goat</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Concentration</td>
<td>100µg/200µl</td>
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<tr>
<td>Isotype</td>
<td>IgG</td>
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<tr>
<td>Calculated MW</td>
<td>46600</td>
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</tbody>
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Goat Anti-PICK1 Antibody - Additional Information

Gene ID 9463

Other Names
PRKCA-binding protein, Protein interacting with C kinase 1, Protein kinase C-alpha-binding protein, PICK1, PRKCABP

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-PICK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PICK1 Antibody - Background

The protein encoded by this gene contains a PDZ domain, through which it interacts with protein kinase C, alpha (PRKCA). This protein may function as an adaptor that binds to and organizes the subcellular localization of a variety of membrane proteins. It has been shown to interact with multiple glutamate receptor subtypes, monoamine plasma membrane transporters, as well as non-voltage gated sodium channels, and may target PRKCA to these membrane proteins and thus regulate their distribution and function. This protein has also been found to act as an anchoring protein that specifically targets PRKCA to mitochondria in a ligand-specific manner. Three transcript variants encoding the same protein have been found for this gene.

Goat Anti-PICK1 Antibody - References

organize the subcellular localization of a variety of membrane proteins containing some PDZ recognition sequence. Involved in the clustering of various receptors, possibly by acting at the receptor internalization level. Plays a role in synaptic plasticity by regulating the trafficking and internalization of AMPA receptors. May be regulated upon PRKCA activation. May regulate ASIC1/ASIC3 channel. Regulates actin polymerization by inhibiting the actin-nucleating activity of the Arp2/3 complex; the function is competitive with nucleation promoting factors and is linked to neuronal morphology regulation and AMPA receptor (AMPAR) endocytosis. Via interaction with the Arp2/3 complex involved in regulation of synaptic plasticity of excitatory synapses and required for spine shrinkage during long-term depression (LTD). Involved in regulation of astrocyte morphology, antagonistic to Arp2/3 complex activator WASL/N-WASP function.

Cellular Location

Tissue Location
Ubiquitous.

Goat Anti-PICK1 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 Cytometry
- Cell Culture

