

Goat Anti-ARP1 homolog A Antibody

Peptide-affinity purified goat antibody Catalog # AF1107a

Specification

Goat Anti-ARP1 homolog A Antibody - Product Information

Application WB, E
Primary Accession P61163

Other Accession <u>NP_005727</u>, <u>10121</u>, <u>54130 (mouse)</u>

Reactivity Human

Predicted Mouse, Pig, Dog

Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG
Calculated MW 42614

Goat Anti-ARP1 homolog A Antibody - Additional Information

Gene ID 10121

Other Names

Alpha-centractin, Centractin, ARP1, Actin-RPV, Centrosome-associated actin homolog, ACTR1A, CTRN1

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg lgG/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-ARP1 homolog A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ARP1 homolog A Antibody - Protein Information

Name ACTR1A (HGNC:167)

Synonyms CTRN1



Function

Part of the ACTR1A/ACTB filament around which the dynactin complex is built. The dynactin multiprotein complex activates the molecular motor dynein for ultra-processive transport along microtubules.

Cellular Location

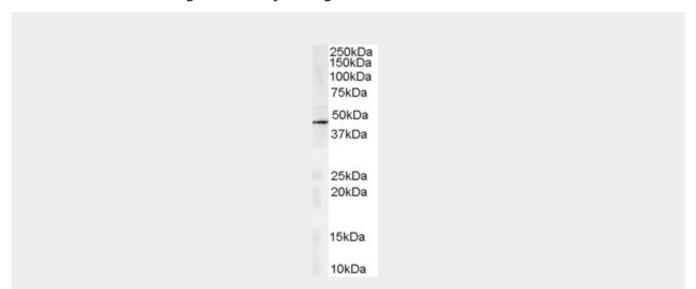
Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P85515}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cell cortex

Goat Anti-ARP1 homolog A 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-ARP1 homolog A Antibody - Images



AF1107a staining (2 μ g/ml) of human kidney lysate (RIPA buffer, 35 μ g total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-ARP1 homolog A Antibody - Background

This gene encodes a 42.6 kD subunit of dynactin, a macromolecular complex consisting of 10-11 subunits ranging in size from 22 to 150 kD. Dynactin binds to both microtubules and cytoplasmic dynein. It is involved in a diverse array of cellular functions, including ER-to-Golgi transport, the centripetal movement of lysosomes and endosomes, spindle formation, chromosome movement, nuclear positioning, and axonogenesis. This subunit is present in 8-13 copies per dynactin molecule, and is the most abundant molecule in the dynactin complex. It is an actin-related protein, and is approximately 60% identical at the amino acid level to conventional actin.

Goat Anti-ARP1 homolog A Antibody - References





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The PITSLRE/CDK11p58 protein kinase promotes centrosome maturation and bipolar spindle formation. Petretti C, et al. EMBO Rep, 2006 Apr. PMID 16462731.

The LIFEdb database in 2006. Mehrle A, et al. Nucleic Acids Res, 2006 Jan 1. PMID 16381901. From ORFeome to biology: a functional genomics pipeline. Wiemann S, et al. Genome Res, 2004 Oct. PMID 15489336.

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