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Goat Anti-Pericentrin 1 / NUP85 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1811a

Specification

Goat Anti-Pericentrin 1 / NUP85 Antibody - Product Information

Application	**WB, E**
Primary Accession	Q9BW27
Other Accession	NP_079120, 79902, 18541 (mouse)
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**75019**

Goat Anti-Pericentrin 1 / NUP85 Antibody - Additional Information

Gene ID 79902

Other Names
Nuclear pore complex protein Nup85, 85 kDa nucleoporin, FROUNT, Nucleoporin Nup75, Nucleoporin Nup85, Pericentrin-1, NUP85, NUP75, PCNT1

Dilution
WB~~1:1000
E~~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-Pericentrin 1 / NUP85 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Pericentrin 1 / NUP85 Antibody - Protein Information

Name NUP85

Synonyms NUP75, PCNT1

Function
Essential component of the nuclear pore complex (NPC) that seems to be required for NPC assembly and maintenance (PubMed:12718872). As part of the NPC Nup107-160 subcomplex plays a role in RNA export and in tethering NUP96/Nup98 and NUP153 to the nucleus (PubMed:12718872). The Nup107-160 complex seems to be required for spindle assembly during mitosis (PubMed:16807356). NUP85 is required for membrane clustering of CCL2-activated CCR2 (PubMed:15995708). Seems to be involved in CCR2-mediated chemotaxis of monocytes and may link activated CCR2 to the phosphatidyl-inositol 3- kinase-Rac-lammellipodium protrusion cascade (PubMed:15995708). Involved in nephrogenesis (PubMed:30179222).

Cellular Location
Nucleus, nuclear pore complex. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Cytoplasm. Nucleus membrane. Note=During mitosis, localizes to the kinetochores and spindle poles (PubMed:12718872, PubMed:16807356). Upon CCl2 stimulation translocates from the cytoplasm to the membrane and colocalizes with CCR2 at the front of migrating cells (PubMed:15995708).

Goat Anti-Pericentrin 1 / NUP85 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-Pericentrin 1 / NUP85 Antibody - Images

AF1811a (1 µg/ml) staining of Hela lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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Goat Anti-Pericentrin 1 / NUP85 Antibody - Background

Bidirectional transport of macromolecules between the cytoplasm and nucleus occurs through nuclear pore complexes (NPCs) embedded in the nuclear envelope. NPCs are composed of subcomplexes, and NUP85 is part of one such subcomplex, Nup107-160.

Goat Anti-Pericentrin 1 / NUP85 Antibody - References

FROUNT is a common regulator of CCR2 and CCR5 signaling to control directional migration. Toda E, et al. J Immunol, 2009 Nov 15. PMID 19841162.
Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.
The structure of the scaffold nucleoporin Nup120 reveals a new and unexpected domain architecture. Leksa NC, et al. Structure, 2009 Aug 12. PMID 19576787.
A novel activator of C-C chemokine, FROUNT, is expressed with C-C chemokine receptor 2 and its ligand in failing human heart. Satoh M, et al. J Card Fail, 2007 Mar. PMID 17395051.
The human Nup107-160 nuclear pore subcomplex contributes to proper kinetochore functions. Zuccolo M, et al. EMBO J, 2007 Apr 4. PMID 17363900.