

# Goat Anti-Pericentrin 1 / NUP85 Antibody

Peptide-affinity purified goat antibody Catalog # AF1811a

### **Specification**

### Goat Anti-Pericentrin 1 / NUP85 Antibody - Product Information

Application WB

Primary Accession Q9BW27

Other Accession <u>NP\_079120</u>, <u>79902</u>, <u>18541 (mouse)</u>

Reactivity
Predicted
Host
Clonality
Concentration
Human
Mouse, Rat
Goat
Polyclonal
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

#### **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-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:<a href="http://www.uniprot.org/citations/12718872" target="\_blank">12718872</a>). 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:<a href="http://www.uniprot.org/citations/12718872" target="\_blank">12718872</a>). The Nup107-160 complex seems to be required for spindle assembly during mitosis (PubMed:<a href="http://www.uniprot.org/citations/16807356" target="\_blank">16807356</a>). NUP85 is required for membrane clustering of CCL2-activated CCR2 (PubMed:<a href="http://www.uniprot.org/citations/15995708" target="\_blank">15995708</a>). 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:<a href="http://www.uniprot.org/citations/15995708" target="\_blank">15995708</a>). Involved in nephrogenesis (PubMed:<a href="http://www.uniprot.org/citations/30179222" target="\_blank">30179222</a>).

#### **Cellular Location**

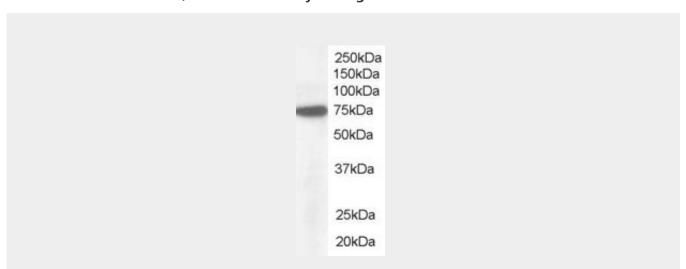
Nucleus, nuclear pore complex. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle. Cytoplasm. Nucleus membrane. Note=During mitosis, localizes to the kinetochores and spindle poles (PubMed:12718872, PubMed:16807356). Upon CCl2 stimulation translocates from the cytoplasm to the membrane 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  $\mu$ g/ml) staining of Hela lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### 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



Tel: 858.875.1900 Fax: 858.875.1999

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.