10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NUP85 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22048a

Product Information

Application	WB, E
Primary Accession	Q9BW27
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55052
Calculated MW	75019

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
Target/Specificity	This NUP85 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 163-195 amino acids from human NUP85.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NUP85 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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).

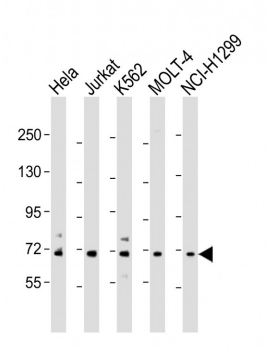
Background

Essential component of the nuclear pore complex (NPC) that seems to be required for NPC assembly and maintenance. As part of the NPC Nup107-160 subcomplex plays a role in RNA export and in tethering NUP98/Nup98 and NUP153 to the nucleus. The Nup107-160 complex seems to be required for spindle assembly during mitosis. NUP85 is required for membrane clustering of CCL2- activated CCR2. 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.

References

Cronshaw J.M.,et al.J. Cell Biol. 158:915-927(2002).
Terashima Y.,et al.Nat. Immunol. 6:827-835(2005).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Zody M.C.,et al.Nature 440:1045-1049(2006).

Images



All lanes : Anti-NUP85 Antibody (N-Term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: K562 whole cell lysate Lane 4: MOLT-4 whole cell lysate Lane 5: NCI-H1299 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 75 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.