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

NUP93 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22063a

Product Information

Application	WB, FC, IHC-P-Leica, E
Primary Accession	Q8N1F7
Other Accession	A5PJZ5, Q8BJ71, Q66HC5
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Bovine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54886
Calculated MW	93488

Additional Information

Gene ID	9688
Other Names	Nuclear pore complex protein Nup93, 93 kDa nucleoporin, Nucleoporin Nup93, NUP93, KIAA0095
Target/Specificity	This NUP93 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 20-54 amino acids from the human NUP93.
Dilution	WB~~1:2000 FC~~1:25 IHC-P-Leica~~1:100 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	NUP93 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NUP93
Synonyms	KIAA0095

Function	Plays a role in the nuclear pore complex (NPC) assembly and/or maintenance (PubMed:9348540). May anchor nucleoporins, but not NUP153 and TPR, to the NPC. During renal development, regulates podocyte migration and proliferation through SMAD4 signaling (PubMed:26878725).
Cellular Location	Nucleus membrane {ECO:0000250|UniProtKB:Q66HC5}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q66HC5}. Nucleus, nuclear pore complex. Nucleus envelope Note=Localizes at the nuclear basket and at or near the nuclear entry to the gated channel of the pore.

Background

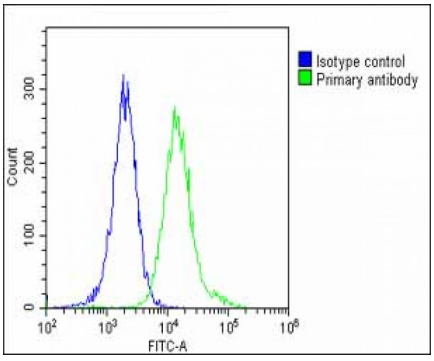
Plays a role in the nuclear pore complex (NPC) assembly and/or maintenance. May anchor nucleoporins, but not NUP153 and TPR, to the NPC.

References

Nagase T.,et al.DNA Res. 2:37-43(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Martin J.,et al.Nature 432:988-994(2004).
Grandi P.,et al.Mol. Biol. Cell 8:2017-2038(1997).
Hase M.E.,et al.Mol. Biol. Cell 14:1923-1940(2003).

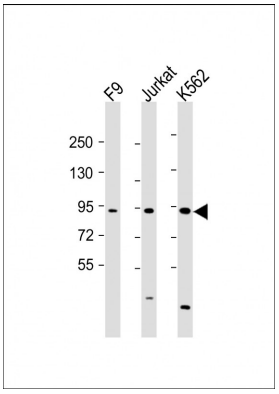
Images

Immunohistochemical analysis of paraffin-embedded human brain tissue using AP22063a performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/100) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing Hela cells stained with AP22063a(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22063a, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

All lanes : Anti-NUP93 Antibody (N-Term) at 1:2000 dilution Lane 1: F9 whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: K562 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 : 93 kDa Blocking/Dilution buffer: 5% NFDM/TBST.