Datasheet for ABIN968699

anti-NUP88 antibody (AA 314-425)

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Overview

Quantity:	50 µg
Target:	NUP88
Binding Specificity:	AA 314-425
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NUP88 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Nup88 aa. 314-425
Clone:	22-Nup88
Isotype:	IgG1
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	NUP88
Alternative Name:	Nup88 (NUP88 Products)
Background:	Nucleocytoplasmic transport involves the binding and interaction of several cytosolic and nuclear pore proteins by at least two different mechanisms. One mechanism is mediated by karyopherins to transport proteins with the nuclear localization sequence (NLS) and an alternative pathway uses the protein Transportin. Morphologically both pathways require the use of the nuclear pore complex (NPC) which acts as a gate mediating active transport of proteins and RNA into and out of the nucleus. The NLS binds to karyopherin alpha, and to the N-terminal region of karyopherin beta. Both karyopherins bind to repeat sequences of nucleoporins at the nuclear envelope. p62 is the best characterized member of a group of nucleoporins that line the central region of the NPC. A tightly associated complex is formed by p62 and two other nucleoporins, p54 and p58. Nup88 is a nonglycosylated nucleoporin, that does not contain the characteristic GLFG or XFXFG repeats found in other NPC proteins. The structure of Nup88 includes a coiled-coil domain required for association with the NPC. Nup88 is overexpressed during oncogenesis and development, and forms a complex with the nuclear transport factors, Exportin-1 and Nup214.
Molecular Weight:	88 kDa
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

Martínez, Alonso, Moragues, Pontón, Schneider: "The nuclear pore complex protein Nup88 is overexpressed in tumor cells." in: **Cancer research**, Vol. 59, Issue 21, pp. 5408-11, (1999) (PubMed).

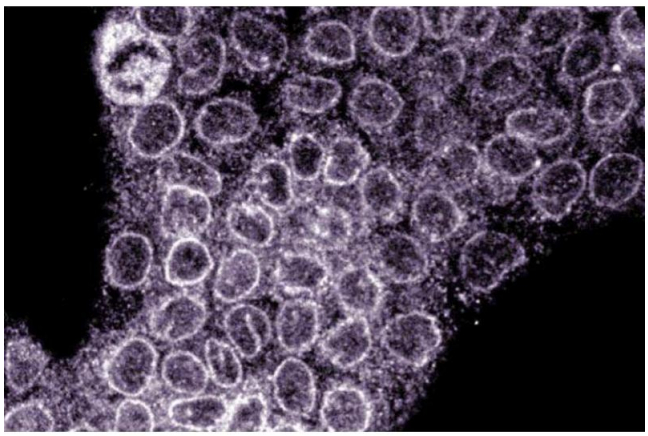
Bastos, Ribas de Pouplana, Enarson, Bodoor, Burke: "Nup84, a novel nucleoporin that is associated with CAN/Nup214 on the cytoplasmic face of the nuclear pore complex." in: **The Journal of cell biology**, Vol. 137, Issue 5, pp. 989-1000, (1997) (PubMed).

Fornerod, van Deursen, van Baal, Reynolds, Davis, Murti, Fransen, Grosveld: "The human homologue of yeast CRM1 is in a dynamic subcomplex with CAN/Nup214 and a novel nuclear pore component Nup88." in: **The EMBO journal**, Vol. 16, Issue 4, pp. 807-16, (1997) (PubMed).

Images

Western Blotting

Image 1. Western blot analysis of Nup88 on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2.2). Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10,000 dilution of the Mouse Anti-Human Nup88 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of A431 cells (Human epithelial carcinoma, ATCC CRL-1555).

Western Blotting

Image 3.