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

NUP62 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant NUP62.
Catalog # AT3138a

Product Information

Application	WB, IF, E
Primary Accession	P37198
Other Accession	NM_153719
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2D3
Calculated MW	53255

Additional Information

Gene ID	23636
Other Names	Nuclear pore glycoprotein p62, 62 kDa nucleoporin, Nucleoporin Nup62, NUP62
Target/Specificity	NUP62 (NP_714941, 423 a.a. ~ 522 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	NUP62 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

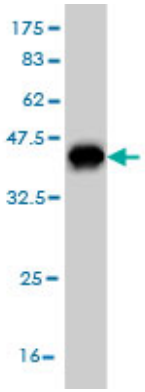
Background

The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. The protein encoded by this gene is a member of the FG-repeat containing nucleoporins and is localized to the nuclear pore central plug. This protein associates with the importin alpha/beta complex which is involved in the import of proteins containing nuclear localization signals. Multiple transcript variants of this gene encode a single protein isoform.

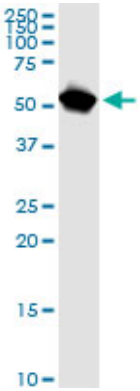
References

Oxidative stress inhibits nuclear protein export by multiple mechanisms that target FG nucleoporins and Crm1. Crampton N, et al. Mol Biol Cell, 2009 Dec. PMID 19828735.Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Mengovirus-induced rearrangement of the nuclear pore complex: hijacking cellular phosphorylation machinery. Bardina MV, et al. J Virol, 2009 Apr. PMID 19144712.Nucleophosmin serves as a rate-limiting nuclear export chaperone for the Mammalian ribosome. Maggi LB Jr, et al. Mol Cell Biol, 2008 Dec. PMID 18809582.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.

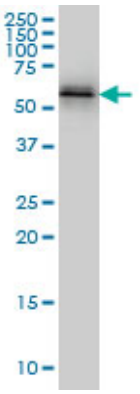
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

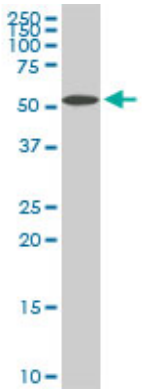


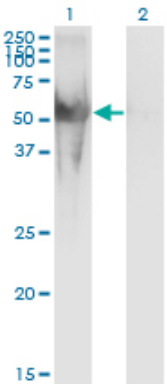
NUP62 monoclonal antibody (M02), clone 2D3. Western Blot analysis of NUP62 expression in PC-12((Cat # AT3138a)



NUP62 monoclonal antibody (M02), clone 2D3 Western Blot analysis of NUP62 expression in Hela S3 NE ((Cat # AT3138a)

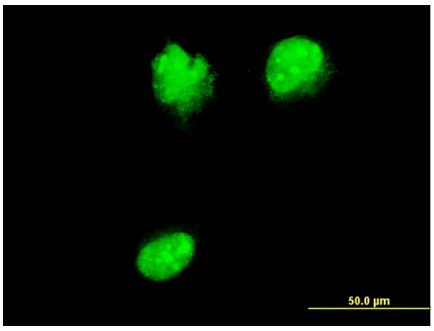
NUP62 monoclonal antibody (M02), clone 2D3. Western Blot analysis of NUP62 expression in NIH/3T3 ((Cat # AT3138a)



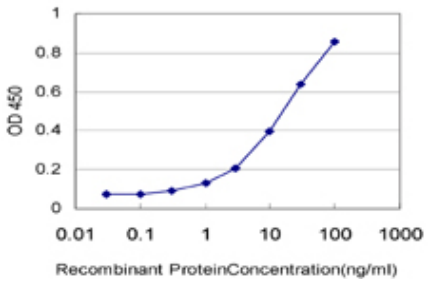


Western Blot analysis of NUP62 expression in transfected 293T cell line by NUP62 monoclonal antibody (M02), clone 2D3.

Lane 1: NUP62 transfected lysate (Predicted MW: 53.3 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to NUP62 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged NUP62 is approximately 1ng/ml as a capture antibody.