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NIFUN Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant NIFUN.
Catalog # AT3051a

Product Information

Application	WB, IF, E
Primary Accession	Q9H1K1
Other Accession	BC011906
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3B8-1C4
Calculated MW	17999

Additional Information

Gene ID	23479
Other Names	Iron-sulfur cluster assembly enzyme ISCU, mitochondrial, NifU-like N-terminal domain-containing protein, NifU-like protein, ISCU, NIFUN
Target/Specificity	NIFUN (AAH11906, 26 a.a. ~ 167 a.a) full-length 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	NIFUN Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

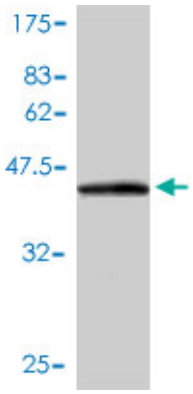
Iron-sulfur (Fe-S) clusters are necessary for several mitochondrial enzymes and other subcellular compartment proteins. They contain sulfur and iron, and are created via several steps that include cysteine desulfurases, iron donors, chaperones, and scaffold proteins. This gene encodes the two isomeric forms, ISCU1 and ISCU2, of the Fe-S cluster scaffold protein. Mutations in this gene have been found in patients with myopathy with severe exercise intolerance and myoglobinuria.

References

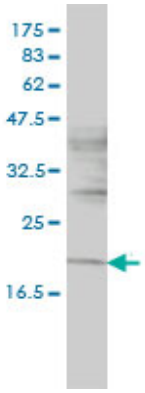
1.Metabolic adaptation to chronic hypoxia in cardiac mitochondria.Heather LC, Cole MA, Tan JJ, Ambrose LJ,

Pope S, Abd-Jamil AH, Carter EE, Dodd MS, Yeoh KK, Schofield CJ, Clarke K.Basic Res Cardiol. 2012 May;107(3):268. Epub 2012 Apr 27.

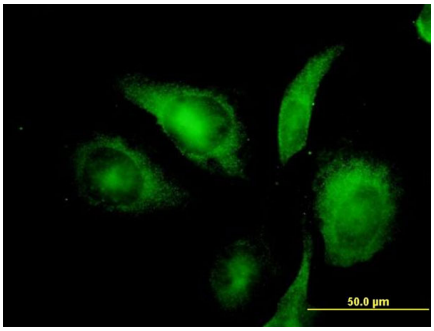
Images



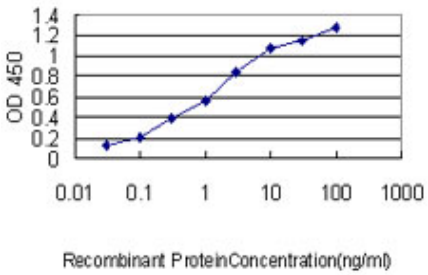
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (41.36 KDa) .



NIFUN monoclonal antibody (M01), clone 3B8-1C4 Western Blot analysis of NIFUN expression in HL-60 ((Cat # AT3051a)



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



Detection limit for recombinant GST tagged NIFUN is approximately 0.03ng/ml as a capture antibody.

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