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# NIFUN Antibody (monoclonal) (M01)

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

## Specification

### NIFUN Antibody (monoclonal) (M01) - Product Information

| | |
|---|---|
| Application | **WB, IF, E** |
| Primary Accession | Q9H1K1 |
| Other Accession | BC011906 |
| Reactivity | **Human** |
| Host | **mouse** |
| Clonality | **Monoclonal** |
| Isotype | **IgG1 kappa** |
| Calculated MW | **17999** |

### NIFUN Antibody (monoclonal) (M01) - 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.

### NIFUN Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot

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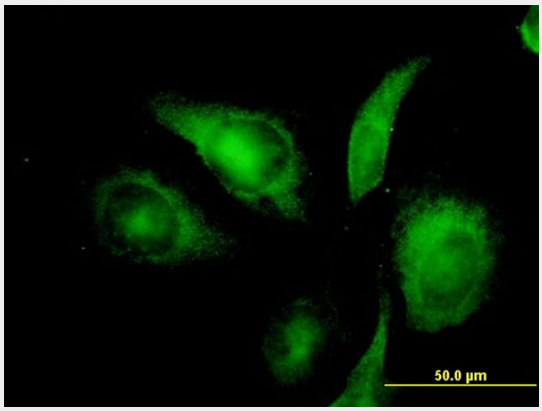
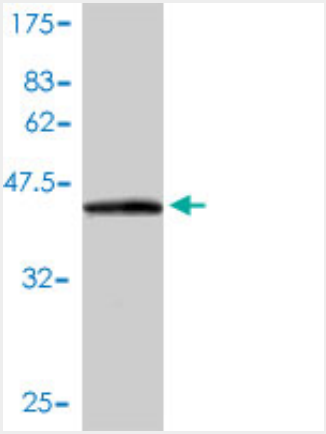
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

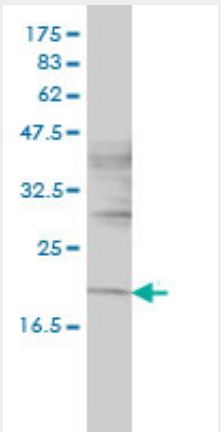
**NIFUN Antibody (monoclonal) (M01) - Images**




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




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



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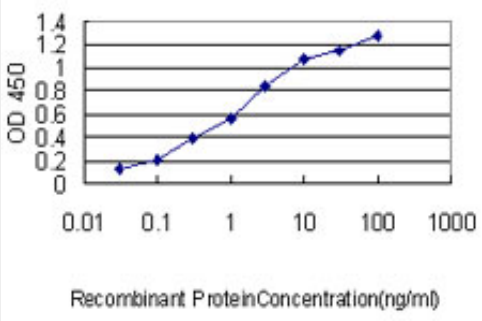
NIFUN monoclonal antibody (M01), clone 3B8-1C4 Western Blot analysis of NIFUN expression in HL-60 ( (Cat # AT3051a )




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

**NIFUN Antibody (monoclonal) (M01) - 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.

**NIFUN Antibody (monoclonal) (M01) - 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.