

**EIF4G2 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant EIF4G2.****Catalog # AT1882a****Specification**

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**EIF4G2 Antibody (monoclonal) (M01) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P78344</a>
Other Accession	<a href="#">NM_001418</a>
Reactivity	Human, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	102362

**EIF4G2 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 1982**Other Names**

Eukaryotic translation initiation factor 4 gamma 2, eIF-4-gamma 2, eIF-4G 2, eIF4G 2, Death-associated protein 5, DAP-5, p97, EIF4G2 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=3297" target="\_blank">HGNC:3297</a>)

**Target/Specificity**

EIF4G2 (NP\_001409, 811 a.a. ~ 889 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

IHC~~1:100~500

**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**

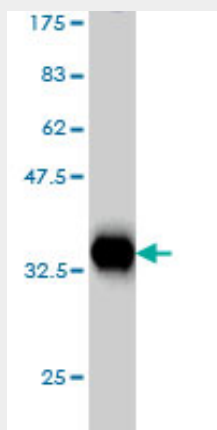
EIF4G2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

**EIF4G2 Antibody (monoclonal) (M01) - Protocols**

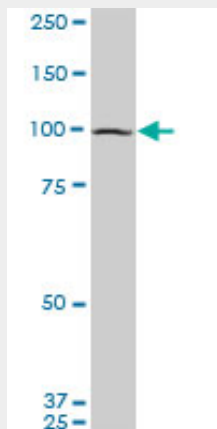
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

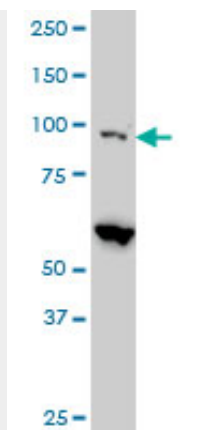
#### EIF4G2 Antibody (monoclonal) (M01) - Images



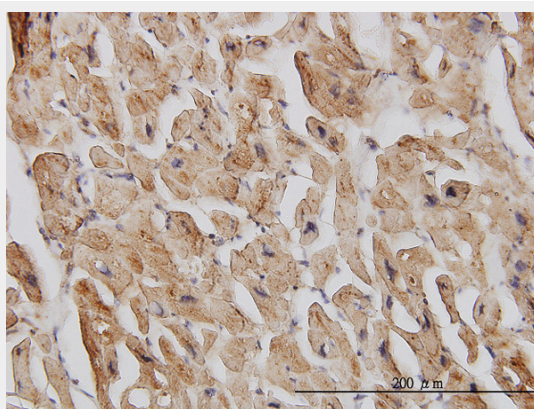
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.43 KDa) .



EIF4G2 monoclonal antibody (M01), clone 3B5. Western Blot analysis of EIF4G2 expression in PC-12 ( (Cat # AT1882a )



EIF4G2 monoclonal antibody (M01), clone 3B5 Western Blot analysis of EIF4G2 expression in HeLa S3 NE (Cat # AT1882a)



Immunoperoxidase of monoclonal antibody to EIF4G2 on formalin-fixed paraffin-embedded human heart. [antibody concentration 3 ug/ml]

### EIF4G2 Antibody (monoclonal) (M01) - Background

Translation initiation is mediated by specific recognition of the cap structure by eukaryotic translation initiation factor 4F (eIF4F), which is a cap binding protein complex that consists of three subunits: eIF4A, eIF4E and eIF4G. The protein encoded by this gene shares similarity with the C-terminal region of eIF4G that contains the binding sites for eIF4A and eIF3; eIF4G, in addition, contains a binding site for eIF4E at the N-terminus. Unlike eIF4G, which supports cap-dependent and independent translation, this gene product functions as a general repressor of translation by forming translationally inactive complexes. In vitro and in vivo studies indicate that translation of this mRNA initiates exclusively at a non-AUG (GUG) codon. Alternatively spliced transcript variants encoding different isoforms of this gene have been described.

### EIF4G2 Antibody (monoclonal) (M01) - References

Crystallization and preliminary X-ray diffraction analysis of the MIF4G domain of DAP5. Frank F, et al. Acta Crystallogr Sect F Struct Biol Cryst Commun, 2010 Jan 1. PMID 20057060. Translation of mRNAs from vesicular stomatitis virus and vaccinia virus is differentially blocked in cells with depletion of eIF4GI and/or eIF4GII. Welnowska E, et al. J Mol Biol, 2009 Dec 4. PMID 19769989. Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732. The crystal structure of the C-terminal DAP5/p97 domain sheds light on the molecular basis for its processing by caspase cleavage. Liberman N, et al. J Mol Biol, 2008 Nov 14. PMID 18722383. Death-associated protein 5 (DAP5/p97/NAT1) contributes to retinoic acid-induced granulocytic differentiation and arsenic trioxide-induced apoptosis in acute promyelocytic leukemia. Ozpolat B, et al. Apoptosis, 2008 Jul. PMID 18491231.