

EIF4G2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant EIF4G2.

Catalog # AT1882a

Specification

EIF4G2 Antibody (monoclonal) (M01) - Product Information

| | |
|-------------------|---------------------------|
| Application | WB, IHC |
| Primary Accession | P78344 |
| Other Accession | NM_001418 |
| 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 ([HGNC:3297](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=3297))

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

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.

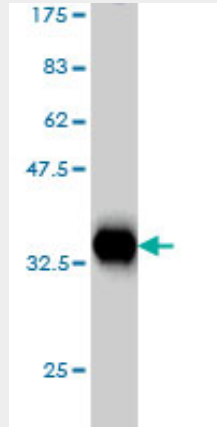
EIF4G2 Antibody (monoclonal) (M01) - Protocols

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

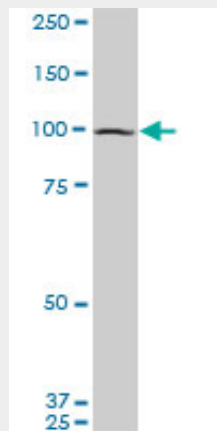
- [Western Blot](#)

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

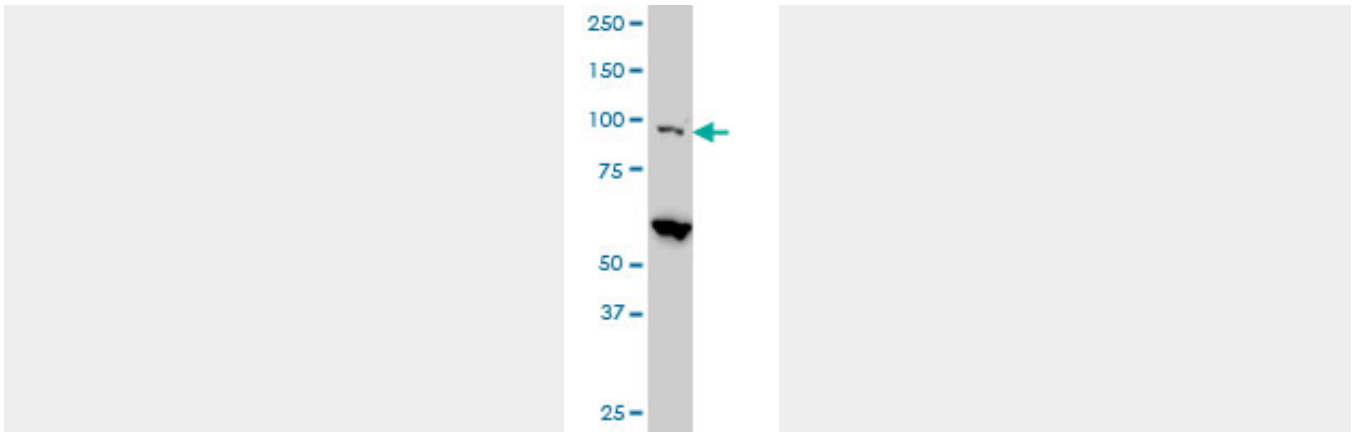
EIF4G2 Antibody (monoclonal) (M01) - Images



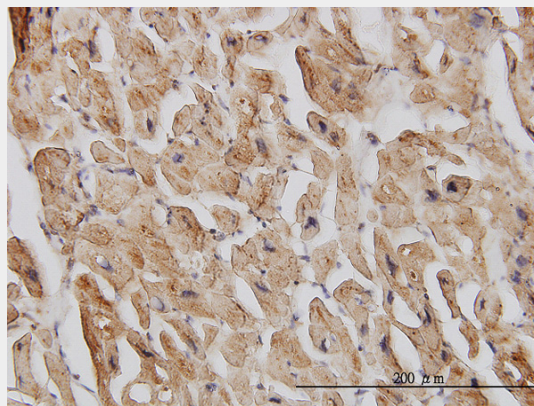
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (34.43 KDa) .



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.