

**EIF2S1 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a full length recombinant EIF2S1.****Catalog # AT1875a****Specification**

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**EIF2S1 Antibody (monoclonal) (M01) - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Application       | WB, IF, E                |
| Primary Accession | <a href="#">P05198</a>   |
| Other Accession   | <a href="#">BC002513</a> |
| Reactivity        | Human                    |
| Host              | mouse                    |
| Clonality         | Monoclonal               |
| Isotype           | IgG1 kappa               |
| Calculated MW     | 36112                    |

**EIF2S1 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 1965**Other Names**

Eukaryotic translation initiation factor 2 subunit 1, Eukaryotic translation initiation factor 2 subunit alpha, eIF-2-alpha, eIF-2A, eIF-2alpha, EIF2S1, EIF2A

**Target/Specificity**

EIF2S1 (AAH02513.1, 1 a.a. ~ 315 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**

EIF2S1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

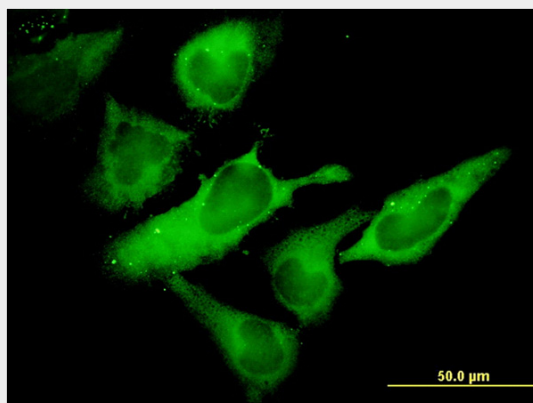
**EIF2S1 Antibody (monoclonal) (M01) - Protocols**

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

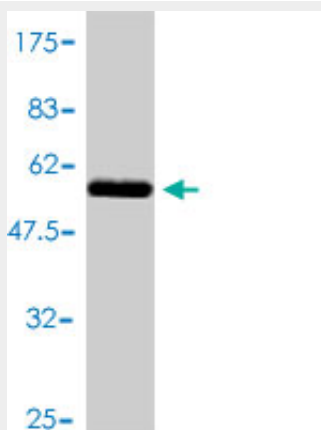
- [Western Blot](#)

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

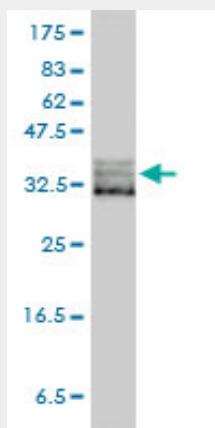
## EIF2S1 Antibody (monoclonal) (M01) - Images



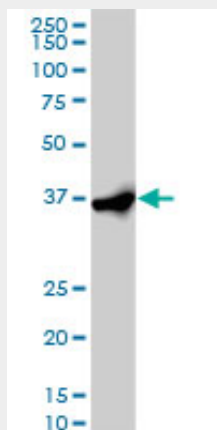
Immunofluorescence of monoclonal antibody to EIF2S1 on HeLa cell. [antibody concentration 10 ug/ml]



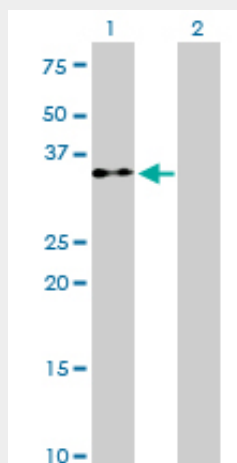
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (60.39 KDa) .



EIF2S1 monoclonal antibody (M01), clone 3H12-C11 Western Blot analysis of EIF2S1 expression in HeLa (Cat # AT1875a)



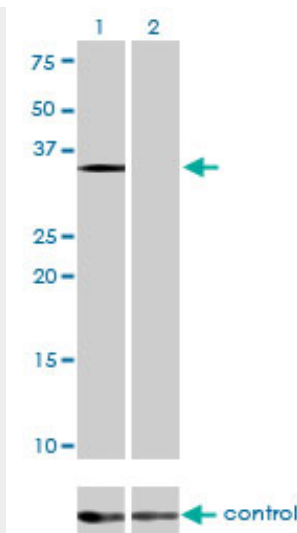
EIF2S1 monoclonal antibody (M01), clone 3H12-C11. Western Blot analysis of EIF2S1 expression in HeLa S3 NE (Cat # AT1875a)



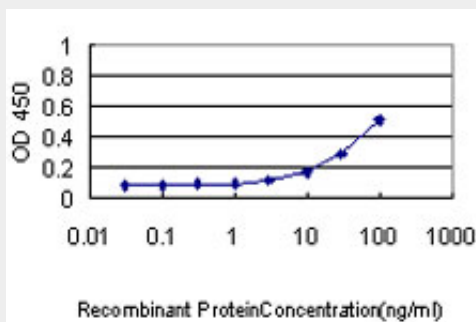
Western Blot analysis of EIF2S1 expression in transfected 293T cell line by EIF2S1 monoclonal antibody (M01), clone 3H12-C11.

Lane 1: EIF2S1 transfected lysate(36.1 KDa).

Lane 2: Non-transfected lysate.



Western blot analysis of EIF2S1 over-expressed 293 cell line, cotransfected with EIF2S1 Validated Chimera RNAi (Cat # AT1875a)



Detection limit for recombinant GST tagged EIF2S1 is approximately 0.3ng/ml as a capture antibody.

### EIF2S1 Antibody (monoclonal) (M01) - Background

The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha (Ernst et al., 1987 [PubMed 2948954]).

### EIF2S1 Antibody (monoclonal) (M01) - References

1.IGF2BP1 enhances HCV IRES-mediated translation initiation via the 3'UTR.Weinlich S, Huttelmaier S, Schierhorn A, Behrens SE, Ostareck-Lederer A, Ostareck DH.RNA. 2009 Aug;15(8):1528-42. Epub 2009 Jun 18.