

**EIF2S2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20272b****Specification**

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**EIF2S2 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P20042</a>
Other Accession	<a href="#">P41035</a> , <a href="#">Q99L45</a> , <a href="#">Q5E9D0</a> , <a href="#">NP_003899.2</a>
Reactivity	Human
Predicted	Bovine, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	38388
Antigen Region	270-299

**EIF2S2 Antibody (C-term) - Additional Information****Gene ID** 8894**Other Names**

Eukaryotic translation initiation factor 2 subunit 2, Eukaryotic translation initiation factor 2 subunit beta, eIF-2-beta, EIF2S2, EIF2B

**Target/Specificity**

This EIF2S2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270-299 amino acids from the C-terminal region of human EIF2S2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

EIF2S2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**EIF2S2 Antibody (C-term) - Protein Information****Name** EIF2S2

## Synonyms EIF2B

**Function** Component of the eIF2 complex that functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA (PubMed:[31836389](#)). This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form the 43S pre-initiation complex (43S PIC). Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF2 and release of an eIF2-GDP binary complex. In order for eIF2 to recycle and catalyze another round of initiation, the GDP bound to eIF2 must exchange with GTP by way of a reaction catalyzed by eIF2B (By similarity).

## Cellular Location

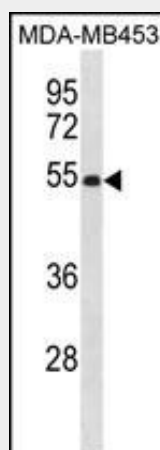
Cytoplasm, cytosol {ECO:0000250|UniProtKB:P56329}

## EIF2S2 Antibody (C-term) - 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](#)

## EIF2S2 Antibody (C-term) - Images



EIF2S2 Antibody (C-term) (Cat. #AP20272b) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the EIF2S2 antibody detected the EIF2S2 protein (arrow).

## EIF2S2 Antibody (C-term) - Background

Eukaryotic translation initiation factor 2 (EIF-2) functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA and binding to a 40S ribosomal subunit. EIF-2 is composed of three subunits, alpha, beta, and gamma, with the protein encoded by this gene representing the beta subunit. The beta subunit catalyzes the exchange of GDP for GTP, which recycles the EIF-2 complex for another round of

initiation.

#### **EIF2S2 Antibody (C-term) - References**

Rajesh, K., et al. Biochem. Biophys. Res. Commun. 374(2):336-340(2008)  
Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)  
Olsen, J.V., et al. Cell 127(3):635-648(2006)  
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