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Datasheet for ABIN3044058

## anti-EIF2S1 antibody (Middle Region)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	EIF2S1
Binding Specificity:	AA 123-137, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

#### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Eukaryotic translation initiation factor 2 subunit 1(EIF2S1) detection. Tested with WB, IHC-P in Human.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human EIF2S1(123-137aa KDEQLESLFQRTAWV).
Sequence:	KDEQLESLFQ RTAWV
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Eukaryotic translation initiation factor 2 subunit 1(EIF2S1) detection. Tested with WB, IHC-P in Human. Gene Name: eukaryotic translation initiation factor 2, subunit 1 alpha, 35 kDa Protein Name: Eukaryotic translation initiation factor 2 subunit 1
Purification:	Immunogen affinity purified.

## Target Details

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Target: EIF2S1

Alternative Name: EIF2S1 ([EIF2S1 Products](#))

Background: EIF2S1(Eukaryotic Translation Initiation Factor 2, Subunit 1), also called EIF2-alpha, is a protein that in humans is encoded by the EIF2S1 gene. Hartz(2010) mapped the EIF2S1 gene to chromosome 14q23.3 based on an alignment of the EIF2S1 sequence with the genomic sequence(GRCh37). Ernst et al.(1987) stated that protein synthesis is inhibited due to phosphorylation of Eif2-alpha in hemin-deprived rabbit reticulocyte lysates. HeLa cells subjected to heat shock, serum deprivation, or interferon treatment followed by virus infection also show a correlation between EIF2-alpha phosphorylation and translational repression. Jacob et al.(1989) found that the alpha-Pal transcription factor bound to 2 palindromic sites within the EIF2-alpha promoter and was essential for transcription of the EIF2-alpha gene.

Synonyms: EIF 2 alpha antibody|EIF 2 antibody|EIF 2A antibody|EIF 2alpha antibody|EIF-2-alpha antibody|EIF-2A antibody|EIF-2alpha antibody|EIF2 alpha antibody|EIF2 antibody|EIF2A antibody|EIF2S1 antibody|Eukaryotic translation initiation factor 2 subunit 1 alpha 35 kDa antibody|Eukaryotic translation initiation factor 2 subunit 1 alpha antibody|Eukaryotic translation initiation factor 2 subunit 1 antibody|Eukaryotic translation initiation factor 2 subunit alpha antibody|IF2A\_HUMAN antibody

UniProt: [P05198](#)

Pathways: [Ribonucleoprotein Complex Subunit Organization](#), [ER-Nucleus Signaling](#), [Hepatitis C](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for EIF2S1 is approximately 0.5 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

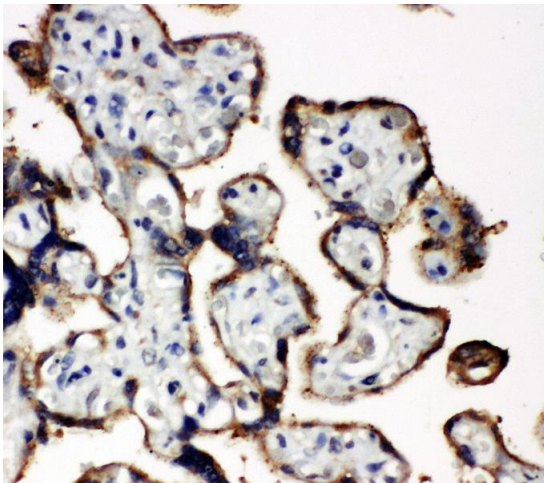
Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

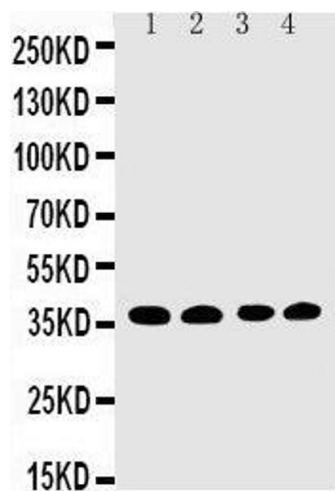
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

## Validation report #300031 for Immunohistochemistry (IHC)



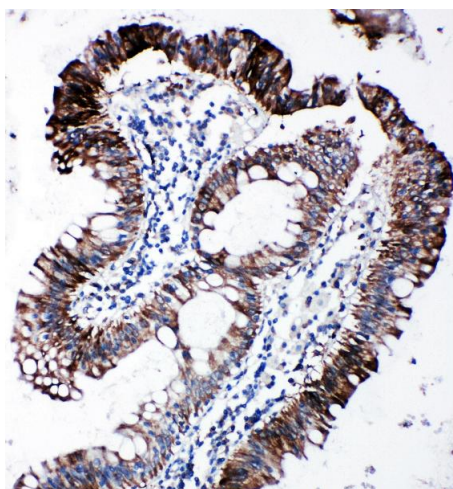
### Immunohistochemistry

**Image 1.** Anti-EIF2S1 antibody, IHC(P) IHC(P): Human Placenta Tissue



### Western Blotting

**Image 2.** Anti-EIF2S1 antibody, Western blotting Lane 1: COLO320 Cell Lysate Lane 2: CEM Cell Lysate Lane 3: RAJI Cell Lysate Lane 4: Cell Lysate



### Immunohistochemistry

**Image 3.** Anti-EIF2S1 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue