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# Anti-EIF2S2 Antibody

Catalog Number: PA2157

## Description

Gene Name	Eukaryotic translation initiation factor 2 subunit 2
Protein Name	Eukaryotic translation initiation factor 2 subunit 2
Size	100µg/vial
Form	Lyophilized
Ig Type	
Purification	Immunogen affinity purified.
Species	Rat, Mouse, Human
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human EIF2S2(199-214aa FQAVTGKRAQLRAKAN), identical to the related mouse and rat sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg Na <sub>3</sub> .
Clonality	2596

## Applications

Concentration	Tested Species	Predicted Species
Western blot, 0.1-0.5µg/ml	Human, Mouse, Rat	

**Tested Species:** In-house tested 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.*

## Preparation and storage

Reconstitution:	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Storage:	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.

## Relevant detection systems

Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

## Background

Eukaryotic translation initiation factor 2 subunit 2, also called EIF2S2 is a protein that in humans is encoded by the EIF2S2 gene. This gene belongs to the EIF-2-beta family. EIF2S2 is mapped to 20q11.2. 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.