

Datasheet for ABIN6699814 **EIF2S1 Protein (His tag)**



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Overview

Quantity:	20 µg
Target:	EIF2S1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF2S1 protein is labelled with His tag.
Application:	Western Blotting (WB)

Product Details

Purpose:	EIF2S1 recombinant protein-HIS Epitope
Purification:	Recombinant full length human EIF2S1 was expressed in E. coli cells using an N-Terminal his epitope. The purity was determined to be >90% by densitometry.
Purity:	>90%

Target Details

Target:	EIF2S1
Alternative Name:	EIF2S1 (EIF2S1 Products)
Background:	<p>Synonyms: EIF-2, EIF-2A, EIF-2alpha, EIF2, EIF2A, Eukaryotic translation initiation factor 2 subunit 1, Eukaryotic translation initiation factor 2 subunit alpha, eIF-2-alpha, eIF-2A, eIF-2alpha</p> <p>Background: EIF2S1, also known as eukaryotic translation initiation factor 2, subunit 1 alpha, is a 35 kDa protein in which The translation initiation factor EIF2 catalyzes the first regulated step</p>

Target Details

of protein synthesis initiation and promotes the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP (1). The Ser51 in the mature human EIF2-alpha protein acts as the sole site of phosphorylation that leads to repression of protein synthesis. EIF2-alpha also plays an essential role in erythropoiesis (2). EIF2S1 Protein is ideal for investigators involved in Signaling Reagents, Protein Substrates, Angiogenesis, Cellular Stress, Inflammation, Neurobiology, and Ser/Thr Kinases research.

NCBI Accession: [NM_004094](#)

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

Application Details

Application Notes: Western_Blot_Dilution: User Optimized
Other: Kinase Assay-User Optimized
Application_Note: EIF2S1 Protein is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~ 40 kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.2 µg/µL

Buffer: EIF2S1 Protein is stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25 % glycerol.

Storage: -80 °C

Storage Comment: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiry Date: 12 months