

Datasheet for ABIN933102
anti-EIF2S1 antibody

3 Images



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Overview

Quantity:	100 µg
Target:	EIF2S1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EIF2S1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Flow Cytometry (FACS), Dot Blot (DB)

Product Details

Immunogen:	EIF2 S1 antibody was raised in mouse using recombinant Human Eukaryotic Translation Initiation Factor 2, Subunit 1 Alpha, 32 da
Clone:	EIF2S1A2B8
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Cross-Reactivity (Details):	Other species not studied.
Purification:	Protein G affinity chromatography

Target Details

Target:	EIF2S1
Alternative Name:	EIF2S1 (EIF2S1 Products)

Target Details

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, alpha (36 kDa), beta (38 kDa, MIM 603908), and gamma (52 kDa, MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of eIF2-alpha. Synonyms: Monoclonal EIF2S1 antibody, Anti-EIF2S1 antibody, Eukaryotic translation initiation factor 2 subunit 1 antibody, EIF-2A antibody, EIF-2alpha antibody, EIF-2 antibody, EIF2A antibody.

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

Application Details

Application Notes: WB: 0.2-2 µg/mL, FC: 0.5-2 µg/sample, ICC: 2-100 µg/mL
Optimal conditions should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: Lot specific

Buffer: EIF2 S1 antibody in PBS (3.0 mM KCl, 1.5 mM KH₂ PO₄, 140 mM NaCl, 8.0 mM Na₂ HPO₄ (pH 7.4)) containing 1 % bovine serum albumin (BSA) and 0.05 % sodium azide (NaN₃).

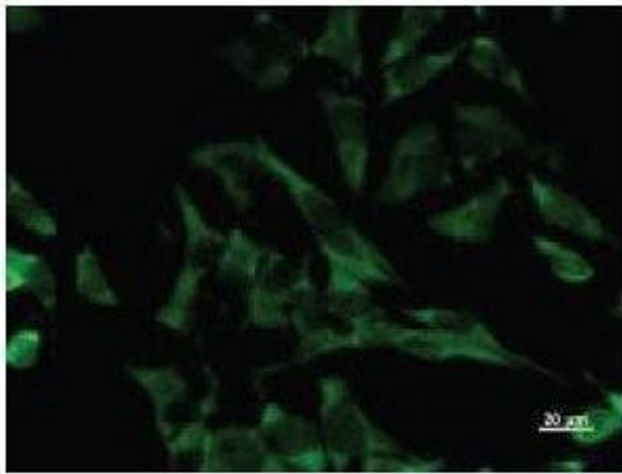
Preservative: Sodium azide

Precaution of Use: This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze/thaw cycles.
Dilute only prior to immediate use.

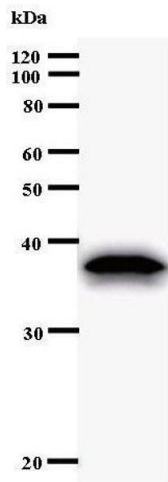
Storage: 4 °C/-20 °C

Storage Comment: Store at 2-8 °C for up to one year. We recommend long term storage at -20 °C.



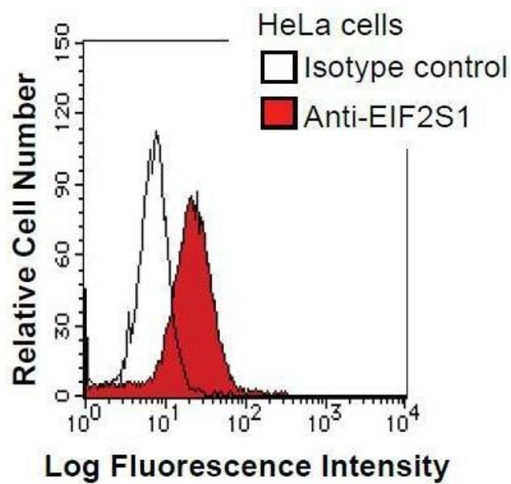
Immunofluorescence

Image 1. Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.01% Triton-EIF2S1 in PBS. The cells were immunostained with anti-HOXC9 antibody.



Western Blotting

Image 2.



Flow Cytometry

Image 3. HeLa cells were fixed in 2% paraformaldehyde/PBS and then permeabilized in 90% methanol. Cells were stained with anti-EIF2S1 antibody (shaded) or isotype control (unshaded) followed by Alexa Fluor 488 conjugated goat anti-mouse IgG.