Human eIF2α Alexa Fluor® 647-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 430516

Catalog Number: FAB3997R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human eIF2α in Western blots.
Source	Monoclonal Rat IgG_{2B} Clone # 430516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human eIF2α Met1-Asp315 Accession # Q53XC0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Eukaryotic translation initiation factor 2 alpha subunit (eIF2α) is a subunit of the eIF2 protein, an important regulator of translation initiation. Phosphorylation of eIF2α on Ser 52 increases the affinity of eIF2α for eIF2B, a guanine nucleotide exchange factor needed for the recycling of eIF2-GDP to eIF2-GTP. Reduction of eIF2-GTP levels leads to the suppression of the overall rate of protein synthesis. Heme-regulated inhibitor (HRI), ER-resident protein kinase PERK, dsRNA activated protein kinase PKR, and the homologue of the S. cerevisiae protein kinase GCN2 are all eIF2α kinases.

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