

## Product datasheet for **TA346937S**

### eIF2 alpha (EIF2S1) Mouse Monoclonal Antibody [Clone ID: 2E4-F5-E7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2E4-F5-E7
Applications:	IF, IP, WB
Recommended Dilution:	WB: 1:1000
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	The immunogen for EIF2S1 antibody: purified recombinant human eIF2a protein fragments expressed in E.coli.
Formulation:	PBS(pH 7.4) containing with 0.03% Proclin300 and 50% glycerol.
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	eukaryotic translation initiation factor 2 subunit alpha
Database Link:	<a href="#">NP_004085</a> <a href="#">Entrez Gene 54318 Rat</a> <a href="#">Entrez Gene 1965 Human</a> <a href="#">P05198</a>
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, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha (Ernst et al., 1987 [PubMed 2948954]).
Synonyms:	EIF-2; EIF-2A; EIF-2alpha; EIF2; EIF2A



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