

eIF2 β (phospho-Ser2) Conjugated Antibody

Catalog No: #C11512



Package Size: #C11512-AF350 100ul #C11512-AF405 100ul #C11512-AF488 100ul
 #C11512-AF555 100ul #C11512-AF594 100ul #C11512-AF647 100ul
 #C11512-AF680 100ul #C11512-AF750 100ul #C11512-Biotin 100ul

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Description

Product Name	eIF2 β (phospho-Ser2) Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of eIF2 β only when phosphorylated at serine 2.
Immunogen Description	Peptide sequence around phosphorylation site of serine 2 (M-S(p)-G-D-E) derived from Human eIF2 β .
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	EIF2S2 ;EIF2;EIF2B
Accession No.	Swiss-Prot#:P20042NCBI Gene ID:8894NCBI mRNA#:NM_003908.3 NCBI Protein#: NP_003899.2
Uniprot	P20042
GeneID	8894;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	38
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250
 AF405 conjugated: most applications: 1: 50 - 1: 250
 AF488 conjugated: most applications: 1: 50 - 1: 250
 AF555 conjugated: most applications: 1: 50 - 1: 250
 AF594 conjugated: most applications: 1: 50 - 1: 250
 AF647 conjugated: most applications: 1: 50 - 1: 250
 AF680 conjugated: most applications: 1: 50 - 1: 250
 AF750 conjugated: most applications: 1: 50 - 1: 250

Product Description

Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.

Background

eIF-2 functions in the early steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA. This complex binds to a 40S ribosomal subunit, followed by mRNA binding to form a 43S preinitiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 must exchange with GTP by way of a reaction catalyzed by eIF-2B.

Note: This product is for in vitro research use only