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Product datasheet for TA321618

eIF2 alpha (EIF2S1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1:500-1000, IHC: 1:50-100, IF: 1:100-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide sequence around aa.49~53 (E-L-S-R-R) derived from Human eIF2a.
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	36 kDa
Gene Name:	eukaryotic translation initiation factor 2 subunit alpha
Database Link:	NP_004085 Entrez Gene 13665 MouseEntrez Gene 54318 RatEntrez Gene 1965 Human P05198
Background:	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.
Synonyms:	EIF-2; EIF-2A; EIF-2alpha; EIF2; EIF2A

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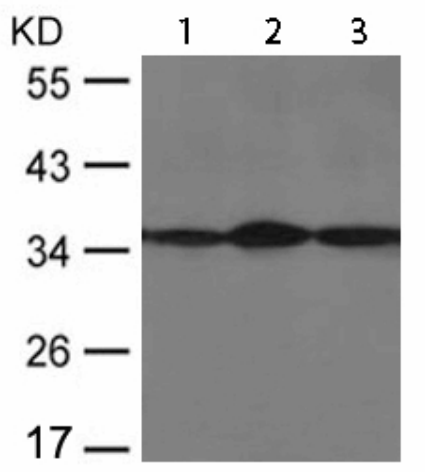
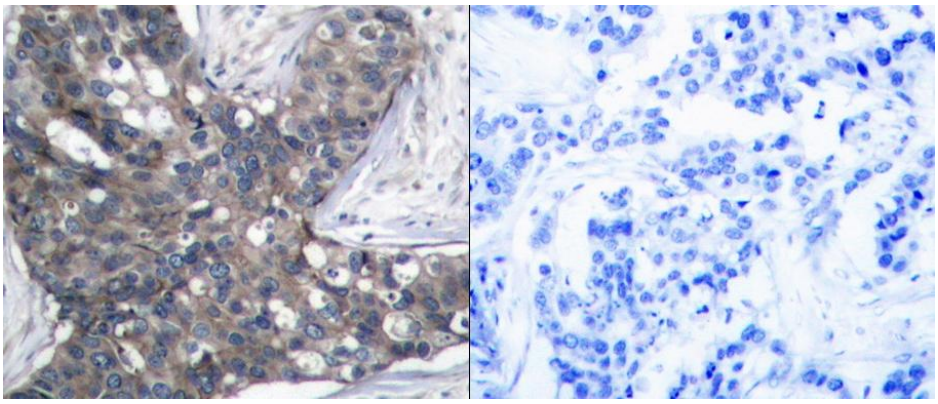
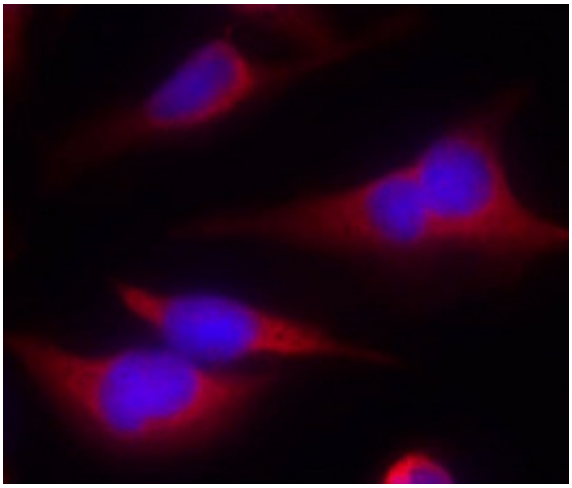
Product images:



Predicted band size: 36 kDa. Positive control: 3T3, Hela and C6 cells lysate. Recommended dilution: 1/ 500-1000. (Gel: 10%SDS-PAGE Lane 1: 3T3 cells lysate Lane 2: Hela cells lysate Lane 3: C6 cells lysate Lysates: 30 ug per lane Primary antibody: 1/500 dilution Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution Exposure time: 1 minute)



Predicted cell location: Cytoplasmic granule. Positive control: Human breast carcinoma tissue. Recommended dilution: 1/ 50-100 The image on the left is immunohistochemistry of paraffin-embedded human breast carcinoma tissue using EIF2S1 (Ab-51) antibody at dilution 1/50, on the right is treated with the synthetic peptide. (Original magnification: x200)



Predicted cell location: Cytoplasmic granule. Positive control: Hela cells. Recommended dilution: 1/ 100-200.The image is immunofluorescence of methanol-fixed Hela cells using EIF2S1 antibody at dilution 1/100. (Original magnification: ×200)