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## anti-EIF2S1 antibody (pSer51)

13 Images

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**Publications** 



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Quantity:	100 μL	
Target:	EIF2S1	
Binding Specificity:	pSer51	
Reactivity:	Human, Rat, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This EIF2S1 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA, Immunocytochemistry (ICC)	

#### **Product Details**

Immunogen:	A synthesized peptide derived from human eIF2 alpha around the phosphorylation site of Ser51.
Isotype:	IgG
Specificity:	Phospho-elF2 alpha (Ser51) Antibody detects endogenous levels of elF2 alpha only when phosphorylated at Ser52, which site historically referenced as Ser51.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

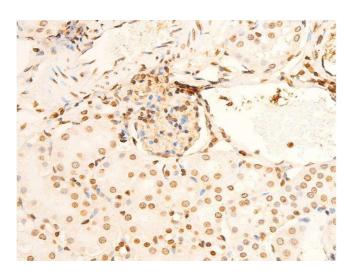
### **Target Details**

Target:	EIF2S1	
Alternative Name:	EIF2S1 (EIF2S1 Products)	
Background:	Description: 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 pre-initiation 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. Gene: EIF2S1	
Molecular Weight:	38kDa	
Gene ID:	1965	
UniProt:	P05198	
Pathways:	Ribonucleoprotein Complex Subunit Organization, ER-Nucleus Signaling, Hepatitis C	
Application Details		
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:500, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	1 mg/mL	
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.	
Expiry Date:	12 months	

Product cited in:

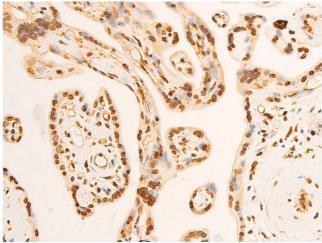
Mousa, Soliman, Alhumaydhi, Almatroudi, Al Rugaie, Allemailem, Alrumaihi, Khan, Rezk, Aljasir, Alwashmi, Aba Alkhayl, Albutti, Seleem: "Garlic Extract Alleviates Trastuzumab-Induced Hepatotoxicity in Rats Through Its Antioxidant, Anti-Inflammatory, and Antihyperlipidemic Effects." in: **Journal of inflammation research**, Vol. 14, pp. 6305-6316, (2021) (PubMed).

#### **Images**



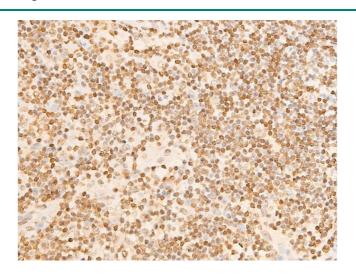
#### **Immunohistochemistry**

**Image 1.** ABIN6267301 at 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### **Immunohistochemistry**

**Image 2.** ABIN6267301 at 1/100 staining human placenta tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### Immunohistochemistry

**Image 3.** ABIN6267301 at 1/100 staining human appendiceal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

Please check the product details page for more images. Overall 13 images are available for ABIN6255389.