# antibodies -online.com





## anti-EIF4E antibody

2 Images



Publication



Go to Product page

0	1 /	-	K	/1	-	1 A
u	\/	$\vdash$	I \	/ I	$\vdash$	1/1

Overview	
Quantity:	400 μL
Target:	EIF4E
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EIF4E antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)
Product Details	
Immunogen:	This EIF4E monoclonal antibody is generated from mouse immunized with EIF4E recombinant protein.
Clone:	163CT48-1-9
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.
Target Details	
Target:	EIF4E
Alternative Name:	EIF4E (EIF4E Products)
Background:	EIF4E recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures.

## **Target Details**

Molecular Weight:	25097
Gene ID:	1977
NCBI Accession:	NP_001124150, NP_001124151, NP_001959
UniProt:	P06730
Pathways:	BCR Signaling

## **Application Details**

Application Notes:	IF: 1:10~50. WB: 1:2000	
Restrictions:	For Research Use only	

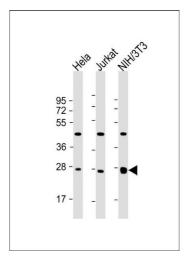
## Handling

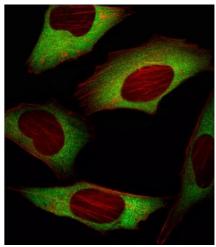
Format:	Liquid
Buffer:	Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

#### **Publications**

Product cited in: Hoeffer, Santini, Ma, Arnold, Whelan, Wong, Pierre, Pelletier, Klann: "Multiple components of elF4F are required for protein synthesis-dependent hippocampal long-term potentiation." in:

Journal of neurophysiology, Vol. 109, Issue 1, pp. 68-76, (2013) (PubMed).





#### **Western Blotting**

**Image 1.** All lanes: Anti-EIF4E Antibody at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lane 3: NIH/3T3 whole cell lysate Lysates/proteins at 20 μg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 25 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

#### **Immunofluorescence**

Image 2. Fluorescent image of Hela cell stained with EIF4E Antibody (ABIN659032 and ABIN2838050)/SG101020AF. Hela cells were fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.1 %, 10 min), then incubated with EIF4E primary antibody (1:25, 1 h at 37 °C. For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-mouse antibody (green) was used (1:400, 50 min at 37 °C.Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C. EIF4E immunoreactivity is localized to Cytoplasm significantly.