[KD Validated] Anti-EEF2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021101

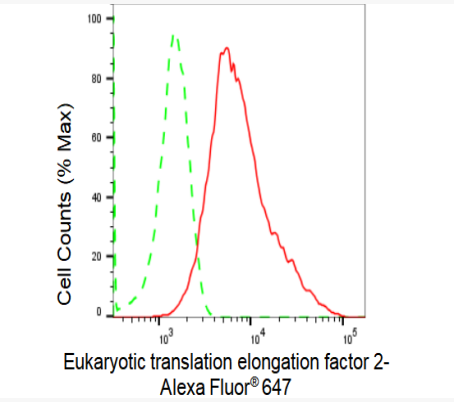
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	11T98H86
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human EEF2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-EEF2 Rabbit mAb [11T98H86] is for research use only and not for use in diagnostic or therapeutic procedures.

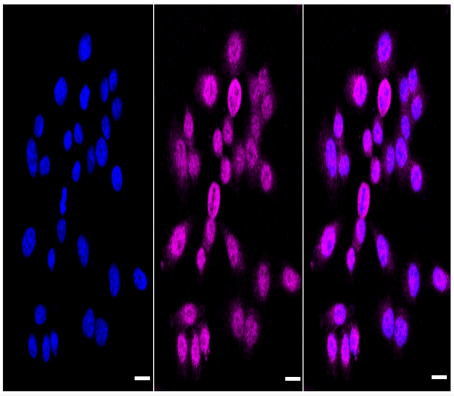
Protein Information

Synonyms	EEF2; Eukaryotic Translation Elongation Factor 2; EEF-2; EF2; Polypeptidyl-TRNA Translocase; Elongation Factor 2; EF-2; Epididymis Secretory Sperm Binding Protein; EC 3.6.5.-; SCA26.
Calculated MW	Calculated MW: 95 kDa, Observed MW: 95 kDa
Uniprot ID	P13639
Gene ID	1938
Background	Catalyzes the GTP-dependent ribosomal translocation step during translation elongation. During this step, the ribosome changes from the pre-translocational (PRE) to the post-translocational (POST) state as the newly formed A-site-bound peptidyl-tRNA and P-site-bound deacylated tRNA move to the P and E sites, respectively.

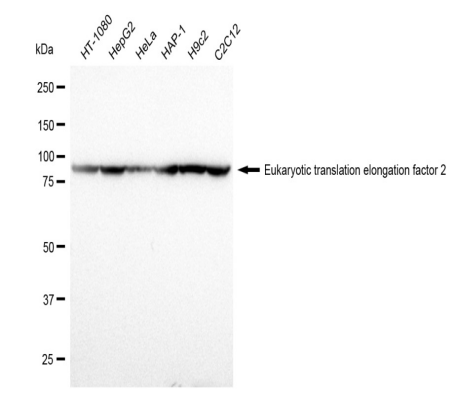
Validation Images



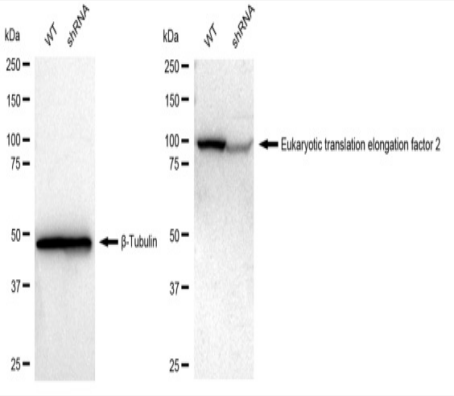
Flow cytometric analysis of Eukaryotic translation elongation factor 2 expression in HepG2 cells using Eukaryotic translation elongation factor 2 antibody (R021101, 1:2,000). Green, isotype control; red, Eukaryotic translation elongation factor 2.



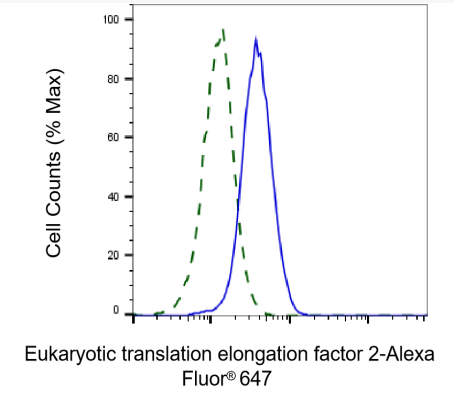
Immunocytochemical staining of HepG2 cells with Eukaryotic translation elongation factor 2 antibody (R021101, 1:1,000). Nuclei were stained blue with DAPI; Eukaryotic translation elongation factor 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



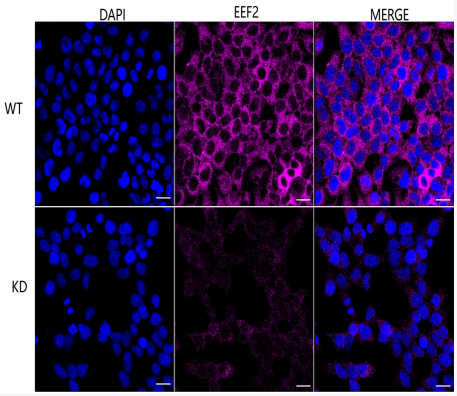
Western blotting analysis using Eukaryotic translation elongation factor 2 antibody (R021101). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Eukaryotic translation elongation factor 2 antibody (R021101, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using Eukaryotic translation elongation factor 2 antibody (R021101). Eukaryotic translation elongation factor 2 expression in wild type (WT) and Eukaryotic translation elongation factor 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Eukaryotic translation elongation factor 2 antibody (R021101, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Validation of Eukaryotic translation elongation factor 2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Eukaryotic translation elongation factor 2 antibody (R021101, 1:2,000) and analyzed using BD flow cytometer.



Immunocytochemical staining of HeLa cells using EEF2 antibody (R021101, 1:1,000), Top panel: wild-type (WT); Bottom panal: EEF2 shRNA knockdown (KD). Nuclei were stained blue with DAPI;EEF2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm. Permeabilization: Triton.