

Product Name: KD-Validated Eukaryotic Translation Elongation Factor 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01027

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 95.3kDa

Antigen Information

Gene Name	EEF2
Alternative Names	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
Gene ID	1938.0
SwissProt ID	P13639
Immunogen	A synthesized peptide derived from human EEF2

Background

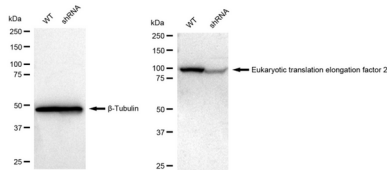
This gene encodes a member of the GTP-binding translation elongation factor family. This protein is an essential factor for protein synthesis. It promotes the GTP-dependent translocation of the nascent protein chain from the A-site to the P-site of the

ribosome. This protein is completely inactivated by EF-2 kinase phosphorylation. [provided by RefSeq, Jul 2008]

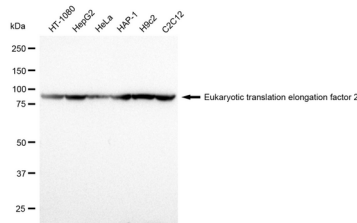
Research Area

Epigenetics and Nuclear Signaling

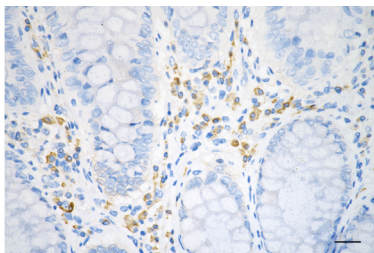
Image Data



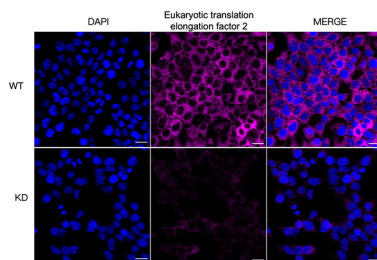
Western blotting analysis using Eukaryotic translation elongation factor 2 antibody (KVA01027). Eukaryotic translation elongation factor 2 expression in wild type (WT) and Eukaryotic translation elongation factor 2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Eukaryotic translation elongation factor 2 antibody (KVA01027, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



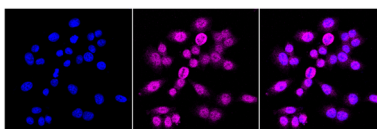
Western blotting analysis using Eukaryotic translation elongation factor 2 antibody (KVA01027). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Eukaryotic translation elongation factor 2 antibody (KVA01027, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



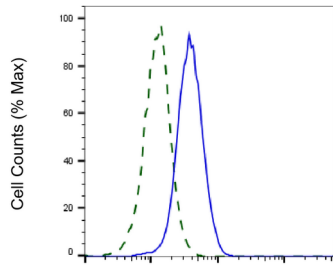
Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using eukaryotic translation elongation factor 2 antibody (KVA01027, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using Eukaryotic translation elongation factor 2 antibody (KVA01027, 1:1,000), Top panel: wild-type (WT); Bottom panel: Eukaryotic translation elongation factor 2 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Eukaryotic translation elongation factor 2 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

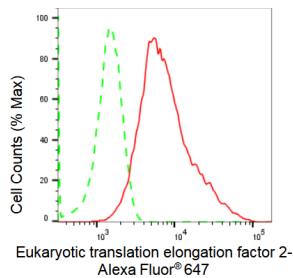


Immunocytochemical staining of HepG2 cells with Eukaryotic translation elongation factor 2 antibody (KVA01027, 1:1,000). Nuclei were stained blue with DAPI; Eukaryotic translation elongation factor 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Eukaryotic translation elongation factor 2-Alexa Fluor® 647

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 (KVA01027, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Eukaryotic translation elongation factor 2 expression in HepG2 cells using Eukaryotic translation elongation factor 2 antibody (KVA01027, 1:2,000). Green, isotype control; red, Eukaryotic translation elongation factor 2.