
Product Name: KD-Validated TSFM Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01188**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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
Molecular Weight	Calculated MW: 35.4kDa

Antigen Information

Gene Name	TSFM
Alternative Names	TSFM; Ts Translation Elongation Factor, Mitochondrial; Elongation Factor Ts, Mitochondrial; EF-TS; Mitochondrial Elongation Factor Ts; EF-Tsmt; EF-TSMT; EF-TsMt; EFTSMT; EF-Ts; EFTS
Gene ID	10102.0
SwissProt ID	P43897
Immunogen	A synthesized peptide derived from human TSFM

Background

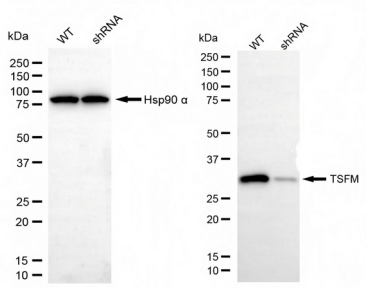
This gene encodes a mitochondrial translation elongation factor. The encoded protein is an enzyme that catalyzes the exchange of guanine nucleotides on the translation elongation factor Tu during the elongation step of mitochondrial protein translation. Mutations in this gene are associated with combined oxidative phosphorylation deficiency-3 syndrome. Alternate

splicing results in multiple transcript variants.[provided by RefSeq, Mar 2010]

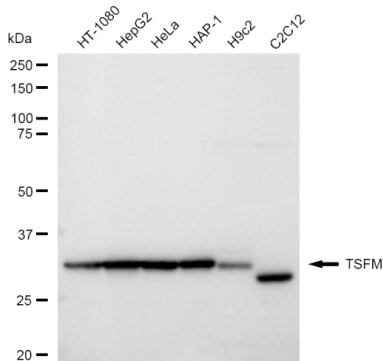
Research Area

Epigenetics and Nuclear Signaling

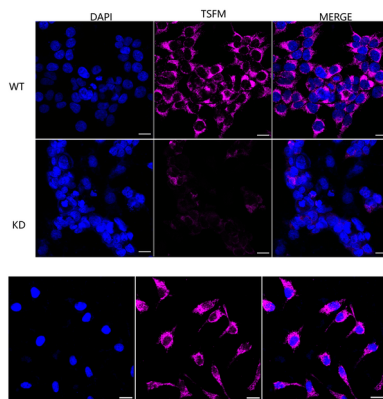
Image Data



Western blotting analysis using TSFM antibody (KVA01188). TSFM expression in wild type (WT) and TSFM shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TSFM antibody (KVA01188, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

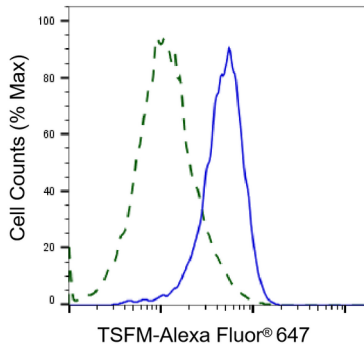


Western blotting analysis using TSFM antibody (KVA01188). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TSFM antibody (KVA01188, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

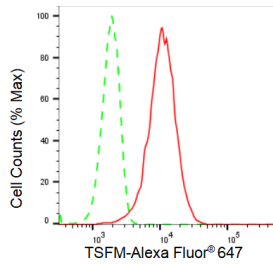


Immunocytochemical staining of HeLa cells using TSFM antibody (KVA01188, 1:1,000), Top panel: wild-type (WT); Bottom panel: TSFM shRNA knockdown (KD). Nuclei were stained blue with DAPI; TSFM was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.

Immunocytochemical staining of HeLa cells with TSFM antibody (KVA01188, 1:1,000). Nuclei were stained blue with DAPI; TSFM 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.



Validation of TFSM knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with TFSM antibody (KVA01188, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of TFSM expression in HeLa cells using TFSM antibody (KVA01188, 1:2,000). Green, isotype control; red, TFSM.