

Product Name: KD-Validated TCEB2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01068**

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: 13.1kDa

Antigen Information

Gene Name	ELOB ELOB; Elongin B; TCEB2; SIII; Transcription Elongation Factor B (SIII), Polypeptide 2 (18kDa, Elongin B); RNA Polymerase II Transcription Factor SIII Subunit B; Transcription Elongation
Alternative Names	Factor B Polypeptide; Transcription Elongation Factor B Subunit 2; Elongin 18 kDa Subunit; Elongin-B; SIII P18; RNA Polymerase II Transcription Factor SIII P18 Subunit; Epididymis Secretory Sperm Binding Protein; Elongin, 18-KD Subunit; EloB
Gene ID	6923.0
SwissProt ID	Q15370
Immunogen	A synthesized peptide derived from human TCEB2

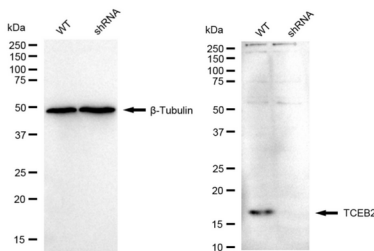
Background

This gene encodes the protein elongin B, which is a subunit of the transcription factor B (SIII) complex. The SIII complex is composed of elongins A/A2, B and C. It activates elongation by RNA polymerase II by suppressing transient pausing of the polymerase at many sites within transcription units. Elongin A functions as the transcriptionally active component of the SIII complex, whereas elongins B and C are regulatory subunits. Elongin A2 is specifically expressed in the testis, and capable of forming a stable complex with elongins B and C. The von Hippel-Lindau tumor suppressor protein binds to elongins B and C, and thereby inhibits transcription elongation. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene. Pseudogenes have been identified on chromosomes 11 and 13. [provided by RefSeq, Aug 2008]

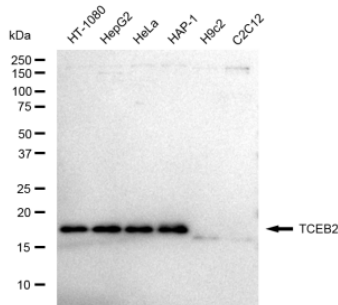
Research Area

Epigenetics and Nuclear Signaling

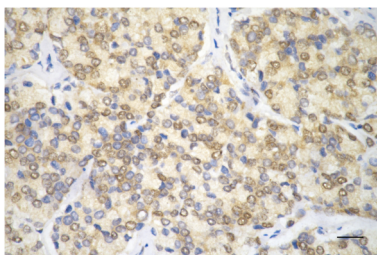
Image Data



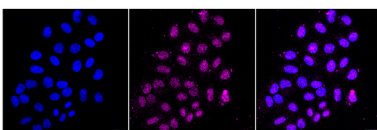
Western blotting analysis using TCEB2 antibody (KVA01068). TCEB2 expression in wild type (WT) and TCEB2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with TCEB2 antibody (KVA01068, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



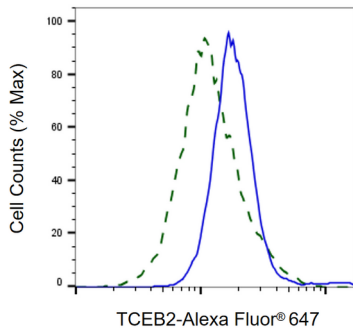
Western blotting analysis using TCEB2 antibody (KVA01068). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TCEB2 antibody (KVA01068, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



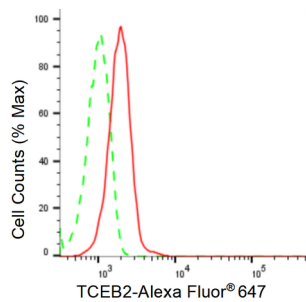
Immunohistochemistry was performed on paraffin-embedded human prostatic adenocarcinoma using TCEB2 antibody (KVA01068, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HepG2 cells with TCEB2 antibody (KVA01068, 1:1,000). Nuclei were stained blue with DAPI; TCEB2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Validation of TCEB2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with TCEB2 antibody (KVA01068, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of TCEB2 expression in HepG2 cells using TCEB2 antibody (KVA01068, 1:2,000). Green, isotype control; red, TCEB2.