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TCEB2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14322c

Product Information

Application	WB, E
Primary Accession	Q15370
Other Accession	NP_009039.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20802
Calculated MW	13133
Antigen Region	21-48

Additional Information

Gene ID	6923
Other Names	Transcription elongation factor B polypeptide 2, Elongin 18 kDa subunit, Elongin-B, EloB, RNA polymerase II transcription factor SIII subunit B, SIII p18, TCEB2
Target/Specificity	This TCEB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 21-48 amino acids from the Central region of human TCEB2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TCEB2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ELOB (HGNC:11619)
Synonyms	TCEB2

Function	SIII, also known as elongin, is a general transcription elongation factor that increases the RNA polymerase II transcription elongation past template-encoded arresting sites. Subunit A is transcriptionally active and its transcription activity is strongly enhanced by binding to the dimeric complex of the SIII regulatory subunits B and C (elongin BC complex) (PubMed:7638163). In embryonic stem cells, the elongin BC complex is recruited by EPOP to Polycomb group (PcG) target genes in order generate genomic region that display both active and repressive chromatin properties, an important feature of pluripotent stem cells (By similarity).
Cellular Location	Nucleus.

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.

References

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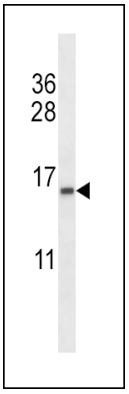
Piessevaux, J., et al. J. Biol. Chem. 283(31):21334-21346(2008)
Van Herreweghe, E., et al. EMBO J. 26(15):3570-3580(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Bullock, A.N., et al. Proc. Natl. Acad. Sci. U.S.A. 103(20):7637-7642(2006)

Images



TCEB2 Antibody (Center) (Cat. #AP14322c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the TCEB2 antibody detected the TCEB2 protein (arrow).