

Elongin B Rabbit pAb

Catalog # AP97761

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q15370
Other Accession	Q15370
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	13133
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TCEB2
Epitope Specificity	10-100/118
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 ubiquitin-like domain.
SUBUNIT	Heterotrimer of an A (A1, A2 or A3), B and C subunit. Part of E3 ubiquitin ligase complexes with CUL5 or CUL2, RBX1 and a substrate adapter protein that can be either SOCS1, SOCS5, TCEB3, VHL or WSB1 (By similarity). Substrate adapter protein can be a viral protein such as HIV Vif. Interacts with VHL. Found in a complex composed of LIMD1, VHL, EGLN1/PHD2, TCEB2 AND CUL2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TCEB2 (Elongin B), 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.

Additional Information

Gene ID	6923
Other Names	SIII; TCEB2; 0610040H15Rik; ELOB_HUMAN; ELOB; Elongin 18 kDa subunit; RNA polymerase II transcription factor SIII subunit B; SIII p18; Transcription elongation factor B polypeptide 2; ELOB_MOUSE; elongin B; transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B); transcription elongation factor B subunit 2

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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