

TCEB3/Elongin A Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H Mk	Endogenous	100	Rabbit	#Q14241	6924

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

TCEB3/Elongin A Antibody recognizes endogenous levels of total TCEB3/Elongin A protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TCEB3/Elongin A protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

The Elongin complex is a heterotrimer composed of TCEB3/Elongin A, Elongin B (TCEB2), and Elongin C (TCEB1) subunits (1-3). The Elongin complex regulates the rate of RNA polymerase II (RNAPII) transcription elongation by releasing the transient pausing of RNAPII at multiple sites along the DNA. TCEB3/Elongin A is the transcriptionally active subunit, while Elongin B and C subunits play a regulatory role (3,4). TCEB3/Elongin A may be required for expression of a subset of cell cycle regulated genes, and embryonic stem (ES) cells lacking TCEB3/Elongin A show abnormalities in cell size, growth, and cell cycle distribution (5). In addition, the Elongin complex has been shown to interact with the cullin family and RING finger proteins Cul5/Rbx2 upon UV-induced DNA damage, removing arrested RNAPII at sites of DNA damage by ubiquitination and degradation as part of an E3 ubiquitin ligase (6).

Background References

1. Bradsher, J.N. et al. (1993) *J Biol Chem* 268, 25587-93.
2. Garrett, K.P. et al. (1994) *Proc Natl Acad Sci U S A* 91, 5237-41.
3. Aso, T. et al. (1995) *Science* 269, 1439-43.
4. Aso, T. et al. (1996) *EMBO J* 15, 5557-66.
5. Yamazaki, K. et al. (2003) *J Biol Chem* 278, 13585-9.
6. Yasukawa, T. et al. (2008) *EMBO J* 27, 3256-66.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBST, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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