



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C  
#3685

## TCEB3/Elongin A Antibody

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

<b>Applications:</b> W	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 100	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q14241	<b>Entrez-Gene Id:</b> 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 TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **Mk:** Monkey

### Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](http://cellsignal.com/trademarks) for more information.

### Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for

Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.