

**COBRA1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14765c****Specification**

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**COBRA1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q8WX92](#)**COBRA1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 25920**Other Names**

Negative elongation factor B, NELF-B, Cofactor of BRCA1, NELFB, COBRA1, KIAA1182

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**COBRA1 Antibody (Center) Blocking Peptide - Protein Information****Name** NELFB**Synonyms** COBRA1 {ECO:0000303|PubMed:11739404}, KI**Function**

Essential component of the NELF complex, a complex that negatively regulates the elongation of transcription by RNA polymerase II (PubMed:<a href="http://www.uniprot.org/citations/12612062" target="\_blank">12612062</a>). The NELF complex, which acts via an association with the DSIF complex and causes transcriptional pausing, is counteracted by the P-TEFb kinase complex (PubMed:<a href="http://www.uniprot.org/citations/10199401" target="\_blank">10199401</a>). May be able to induce chromatin unfolding (PubMed:<a href="http://www.uniprot.org/citations/11739404" target="\_blank">11739404</a>). Essential for early embryogenesis; plays an important role in maintaining the undifferentiated state of embryonic stem cells (ESCs) by preventing unscheduled expression of developmental genes (By similarity). Plays a key role in establishing the responsiveness of stem cells to developmental cues; facilitates plasticity and cell fate commitment in ESCs by establishing the appropriate expression level of signaling molecules (By similarity). Supports the transcription of genes involved in energy metabolism in cardiomyocytes; facilitates the association of transcription initiation factors with the promoters of the metabolism- related genes (By similarity).

**Cellular Location**

Nucleus.

**Tissue Location**

Widely expressed. Expressed in heart, brain, lung, placenta, liver, skeletal muscle, kidney and pancreas

**COBRA1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**COBRA1 Antibody (Center) Blocking Peptide - Images****COBRA1 Antibody (Center) Blocking Peptide - Background**

NELFB is a subunit of negative elongation factor (NELF), which also includes NELFA (WHSC2; MIM 606026), either NELFC or NELFD (TH1L; MIM 605297), and NELFE (RDBP; MIM 154040). NELF acts with DRB sensitivity-inducing factor (DSIF), a heterodimer of SPT4 (SUPT4H1; MIM 603555) and SPT5 (SUPT5H; MIM 602102), to cause transcriptional pausing of RNA polymerase II (see MIM 180660) (Narita et al., 2003 [PubMed 12612062]).

**COBRA1 Antibody (Center) Blocking Peptide - References**

Sun, J., et al. J. Cell. Biochem. 103(6):1798-1807(2008) Sun, J., et al. J. Steroid Biochem. Mol. Biol. 107 (3-5), 131-139 (2007) :Wu, C., et al. Proteomics 7(11):1775-1785(2007) Narita, T., et al. Mol. Cell 26(3):349-365(2007) Aiyar, S.E., et al. Int. J. Biol. Sci. 3(7):486-492(2007)