10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

COBRA1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP14765c

Specification

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:12612062). 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:10199401). May be able to induce chromatin unfolding (PubMed:11739404). 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 orNELFD (TH1L; MIM 605297), and NELFE (RDBP; MIM 154040). NELF actswith DRB sensitivity-inducing factor (DSIF), a heterodimer of SPT4(SUPT4H1; MIM 603555) and SPT5 (SUPT5H; MIM 602102), to causetranscriptional 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)