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ELP3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP1112b

Specification

ELP3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9H9T3

ELP3 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 55140

Other Names
Elongator complex protein 3, hELP3, ELP3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1112b was selected from the C-term region of human ELP3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

ELP3 Antibody (C-term) Blocking Peptide - Protein Information

Name ELP3 {ECO:0000303|PubMed:15902492, ECO:0000312|HGNC:HGNC:20696}

Function
Catalytic tRNA acetyltransferase subunit of the elongator complex which is required for multiple tRNA modifications, including mcm5U (5-methoxycarbonylmethyl uridine), mcm5s2U (5-methoxycarbonylmethyl-2-thiouridine), and ncm5U (5-carbamoylmethyl uridine) (PubMed:29415125). In the elongator complex, acts as a tRNA uridine(34) acetyltransferase by mediating formation of carboxymethyluridine in the wobble base at position 34 in tRNAs (By similarity). May also act as a protein lysine acetyltransferase by mediating acetylation of target proteins; such activity is however unclear in vivo and recent evidences suggest that ELP3 primarily acts as a tRNA acetyltransferase (PubMed:29415125). Involved in neurogenesis: regulates the migration and branching of projection neurons in the developing cerebral cortex, through a process depending on alpha-tubulin acetylation (PubMed:<a href="http://www.uniprot.org/citations/19185337"

target="_blank">19185337). Required for acetylation of GJA1 in the developing cerebral cortex (By similarity).

Cellular Location
Cytoplasm. Nucleus [Isoform 2]: Cytoplasm. Nucleus

Tissue Location
Expressed in the cerebellum and spinal motor neurons.

ELP3 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ELP3 Antibody (C-term) Blocking Peptide - Images

ELP3 Antibody (C-term) Blocking Peptide - Background

Elongator complex protein 3 (ELP3) is a catalytic histone acetyltransferase subunit of the RNA polymerase II elongator complex, which is a component of the RNA polymerase II (Pol II) holoenzyme and is involved in transcriptional elongation. Elongator may play a role in chromatin remodeling and is involved in acetylation of histones H3 and probably H4. It may also have a methyltransferase activity.

ELP3 Antibody (C-term) Blocking Peptide - References

Han,Q., Acta Biochim. Biophys. Sin. (Shanghai) 39 (6), 453-461 (2007)Kim,J.H., Proc. Natl. Acad. Sci. U.S.A. 99 (3), 1241-1246 (2002)Ninomiya,Y., J. Biochem. 118 (2), 380-389 (1995)