

NELF Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17290b**Specification**

NELF Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q6X4W1](#)**NELF Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 26012**Other Names**

NMDA receptor synaptonuclear signaling and neuronal migration factor, Nasal embryonic luteinizing hormone-releasing hormone factor, Nasal embryonic LHRH factor, NSMF, NELF

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.

NELF Antibody (C-term) Blocking Peptide - Protein Information**Name** NSMF**Synonyms** NELF**Function**

Couples NMDA-sensitive glutamate receptor signaling to the nucleus and triggers long-lasting changes in the cytoarchitecture of dendrites and spine synapse processes. Part of the cAMP response element-binding protein (CREB) shut-off signaling pathway. Stimulates outgrowth of olfactory axons and migration of gonadotropin-releasing hormone (GnRH) and luteinizing-hormone-releasing hormone (LHRH) neuronal cells.

Cellular Location

Nucleus. Nucleus envelope. Nucleus membrane. Nucleus matrix. Cytoplasm. Cytoplasm, cell cortex. Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein. Cell projection, dendrite Synapse. Synapse, synaptosome. Postsynaptic density. Membrane. Note=Found on the outside of the luteinizing-hormone-releasing hormone (LHRH) cell membrane and axons projecting from the olfactory pit and epithelium Associates with transcriptionally active chromatin regions. Detected at the nuclear membranes of CA1 neurons. Cortical cytoskeleton. Localized in proximal apical dendrites. Colocalizes with CABP1 in dendrites and dendritic spines. Myristoylation is a prerequisite for extranuclear localization. Translocates from dendrites to the nucleus during NMDA

receptor-dependent long-term potentiation (LTP) induction of synaptic transmission at Schaffer collateral/CA1 synapses of hippocampal primary neurons and in a importin-dependent manner (By similarity)

Tissue Location

Highly expressed in adult and fetal brain. Weakly expressed in heart, liver, spleen, testis, small intestine, skeletal muscle, peripheral white blood cells and kidney

NELF Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

NELF Antibody (C-term) Blocking Peptide - Images**NELF Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene is involved in guidance of olfactory axon projections and migration of luteinizing hormone-releasing hormone neurons. Defects in this gene are a cause of idiopathic hypogonadotropic hypogonadism (IHH). Several transcript variants encoding different isoforms have been found for this gene.

NELF Antibody (C-term) Blocking Peptide - References

Xu, N., et al. Mol. Cell. Endocrinol. 319 (1-2), 47-55 (2010) :Trarbach, E.B., et al. Clin. Endocrinol. (Oxf) 72(3):371-376(2010)Yung, T.M., et al. Exp. Cell Res. 315(10):1693-1705(2009)Pedersen-White, J.R., et al. Mol. Hum. Reprod. 14(6):367-370(2008)Lim, J., et al. Cell 125(4):801-814(2006)