NELF Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	NELF (NSMF), Blocking Peptide
Full Product Name	NELF Antibody (C-term) Blocking Peptide
Product Gene Name	NSMF blocking peptide
Product Synonym Gene Name	NELF
Product Synonym Names	NMDA receptor synaptonuclear signaling and neuronal migration factor; Nasal embryonic luteinizing hormone-releasing hormone factor; Nasal embryonic LHRH factor; NSMF; NELF
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	NELF peptide (MBS9222449) is used for blocking the activity of NELF antibody (MBS9213635)
Molecular Weight	57,139 Da
OMIM	608137
Cellular Location	Nucleus. Nucleus envelope. Nucleus membrane Nucleus matrix. Cytoplasm. Cytoplasm, cell cortex. Cytoplasm, cytoskeleton. Cell membrane; Peripheral membrane protein. Cell projection, dendrite. Cell junction, synapse. Cell junction, synapse, synaptosome. Cell junction, synapse, postsynaptic cell membrane, 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
Related Product Information for NSMF blocking peptide	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.
Other Notes	Small volumes of NSMF blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NSMF purchase	MBS9222449 is a blocking peptide targeting NSMF. Also known as NELF Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSMF. It may not necessarily be applicable to this product.

NCBI GI #	71152011
NCBI GeneID	26012
NCBI Accession #	Q6X4W1.1
UniProt Primary Accession #	Q6X4W1

UniProt Secondary Accession #	Q2TB96; Q6X4V7; Q6X4V8; Q6X4V9; Q8N2M2; Q96SY1; Q9NPM4; Q9NPP3; Q9NPS3
UniProt Related Accession #	Q6X4W1
NCBI Official Full Name	NMDA receptor synaptonuclear signaling and neuronal migration factor
NCBI Official Synonym Full Names	NMDA receptor synaptonuclear signaling and neuronal migration factor
NCBI Official Symbol	NSMF
NCBI Official Synonym Symbols	HH9; NELF
UniProt Protein Name	NMDA receptor synaptonuclear signaling and neuronal migration factor
UniProt Synonym Protein Names	Nasal embryonic luteinizing hormone-releasing hormone factor; Nasal embryonic LHRH factor
Protein Family	NMDA receptor synaptonuclear signaling and neuronal migration factor
UniProt Gene Name	NSMF
UniProt Synonym Gene Names	NELF; Nasal embryonic LHRH factor
UniProt Entry Name	NSMF_HUMAN
NCBI Protein Information	NMDA receptor synaptonuclear signaling and neuronal migration factor
NCBI Summary for NSMF	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. [provided by RefSeq, May 2010]
Research Articles on NSMF	**1.** The nuclear and non-nuclear NELF variant transcripts and proteins were identified, explaining variable NELF cellular localization.
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