

**NELF Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17290B**

### Specification

#### NELF Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">Q6X4W1</a>
Other Accession	<a href="#">Q9EPI6</a> , <a href="#">Q99NF2</a> , <a href="#">NP_001124442.1</a> , <a href="#">NP_001124441.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	60143
Antigen Region	501-530

#### NELF Antibody (C-term) - 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

##### Target/Specificity

This NELF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 501-530 amino acids from the C-terminal region of human NELF.

##### Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

##### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

##### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

NELF Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### NELF Antibody (C-term) - 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**

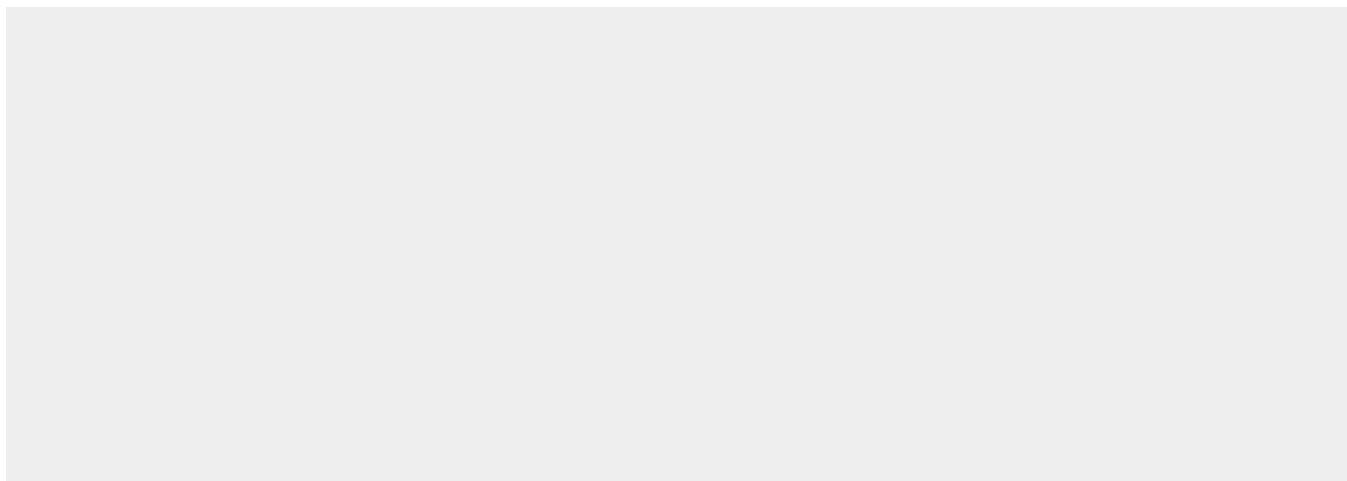
Highly expressed in adult and fetal brain. Weakly expressed in heart, liver, spleen, testis, small intestine, skeletal muscle, peripheral white blood cells and kidney

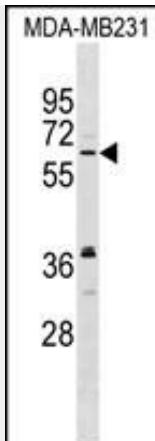
**NELF Antibody (C-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NELF Antibody (C-term) - Images**





NELF Antibody (C-term) (Cat. #AP17290b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the NELF antibody detected the NELF protein (arrow).

### **NELF Antibody (C-term) - 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) - 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)