

**NMB Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5348C****Specification**

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**NMB Antibody (Center) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">P08949</a>
Other Accession	<a href="#">O9CR53</a> , <a href="#">NP_066563.2</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	13252
Antigen Region	15-42

**NMB Antibody (Center) - Additional Information****Gene ID** 4828**Other Names**

Neuromedin-B, Neuromedin-B-32, Neuromedin-B, NMB

**Target/Specificity**

This NMB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 15-42 amino acids from the Central region of human NMB.

**Dilution**

IF~~1:10~50

WB~~1:1000

IHC-P~~1:50~100

**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**

NMB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**NMB Antibody (Center) - Protein Information****Name** NMB

**Function** Stimulates smooth muscle contraction (By similarity). Induces sighing by acting directly on the pre-Botzinger complex, a cluster of several thousand neurons in the ventrolateral medulla responsible for inspiration during respiratory activity (By similarity). Contributes to the induction of sneezing following exposure to chemical irritants or allergens which causes release of NMB by nasal sensory neurons and activation of NMBR-expressing neurons in the sneeze-evoking region of the brainstem (By similarity). These in turn activate neurons of the caudal ventral respiratory group, giving rise to the sneezing response (By similarity). Contributes to induction of acute itch, possibly through activation of the NMBR receptor on dorsal root ganglion neurons (By similarity). Increases expression of NMBR and steroidogenic mediators STAR, CYP11A1 and HSD3B1 in Leydig cells, induces secretion of testosterone by Leydig cells and also promotes Leydig cell proliferation (By similarity). Plays a role in the innate immune response to influenza A virus infection by enhancing interferon alpha expression and reducing expression of IL6 (PubMed:[31601264](#)). Plays a role in CSF1-induced proliferation of osteoclast precursors by contributing to the positive regulation of the expression of the CSF1 receptor CSF1R (By similarity).

#### Cellular Location

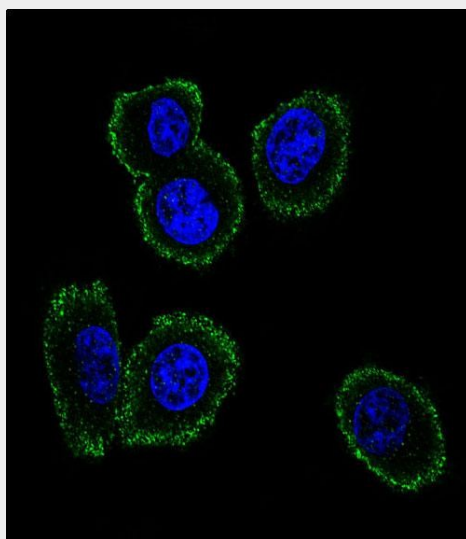
Secreted {ECO:0000250|UniProtKB:Q9CR53}. Cell projection, neuron projection {ECO:0000250|UniProtKB:Q9CR53}. Note=In neurons of the retrotrapezoid nucleus//parafacial respiratory group, expressed on neuron projections which project into the pre-Botzinger complex. {ECO:0000250|UniProtKB:Q9CR53}

#### NMB Antibody (Center) - Protocols

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

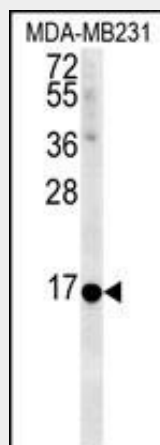
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### NMB Antibody (Center) - Images

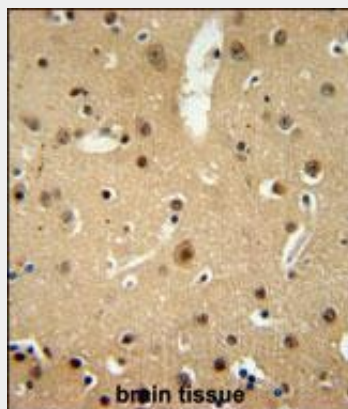


Confocal immunofluorescent analysis of NMB Antibody (Center) (Cat#AP5348c) with MDA-MB231

cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



NMB Antibody (Center) (Cat. #AP5348c) western blot analysis in MDA-MB231 cell line lysates (35ug/lane). This demonstrates the NMB antibody detected the NMB protein (arrow).



NMB Antibody (Center) (Cat. #AP5348c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the NMB Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **NMB Antibody (Center) - Background**

NMB stimulates smooth muscle contraction in a manner similar to that of bombesin.

#### **NMB Antibody (Center) - References**

- Luttrell, L.M. Mol. Biotechnol. 39(3):239-264(2008)
- Spalova, J., et al. Physiol Res 57 SUPPL 1, S39-S48 (2008)
- Hoggard, N., et al. J. Mol. Endocrinol. 39(3):199-210(2007)