

**Anti-Nesfatin-1 Picoband Antibody**  
**Catalog # ABO12562****Specification**

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**Anti-Nesfatin-1 Picoband Antibody - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">P81117</a>
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Nucleobindin-2(NUCB2) detection. Tested with WB, IHC-P, ELISA in Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Nesfatin-1 Picoband Antibody - Additional Information**

**Gene ID** 53322

**Other Names**

Nucleobindin-2, DNA-binding protein NEFA, Prepronesfatin, Nesfatin-1, Nucb2, Nefa

**Calculated MW**

50304 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat<br><br>ELISA , 0.1-0.5 µg/ml, Mouse, -<br>Western blot, 0.1-0.5 µg/ml, Mouse<br>

**Subcellular Localization**

Cytoplasm . Perikaryon . Endoplasmic reticulum . Golgi apparatus . Nucleus envelope . Membrane ; Peripheral membrane protein . Secreted . In dendrites and perikarya of brain neurons. Abundant in the ER cisternae and nuclear envelope, but not detected in Golgi, mitochondria or nucleoplasm in neurons. In cell culture, cytoplasmic and secreted.

**Tissue Specificity**

Found in liver, heart, thymus, muscle, intestine, kidney, lung, spleen and throughout the brain, in cerebral cortex, hippocampus, hypothalamus and medulla oblongata. Nucb2 and necdin levels were higher in postmitotic neurons. .

**Protein Name**

Nucleobindin-2

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**

E. coli-derived mouse Nucleobindin 2 recombinant protein (Position: V25-L106). Mouse Nucleobindin 2 shares 85.4% and 97.6% amino acid (aa) sequence identity with human and rat Nucleobindin 2, respectively.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-Nesfatin-1 Picoband Antibody - Protein Information**

**Name** Nucb2

**Synonyms** Nefa

**Function**

Calcium-binding protein which may have a role in calcium homeostasis (PubMed:<a href="http://www.uniprot.org/citations/10915798" target="\_blank">10915798</a>). Acts as a non-receptor guanine nucleotide exchange factor which binds to and activates guanine nucleotide-binding protein (G-protein) alpha subunit GNAI3 (By similarity).

**Cellular Location**

Cytoplasm. Perikaryon. Endoplasmic reticulum. Golgi apparatus. Nucleus envelope. Membrane; Peripheral membrane protein. Secreted. Note=In dendrites and perikarya of brain neurons. Abundant in the ER cisternae and nuclear envelope, but not detected in Golgi, mitochondria or nucleoplasm in neurons. In cell culture, cytoplasmic and secreted

**Tissue Location**

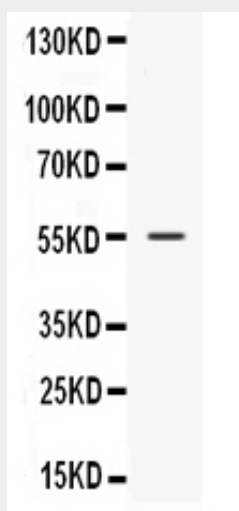
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**Anti-Nesfatin-1 Picoband Antibody - Protocols**

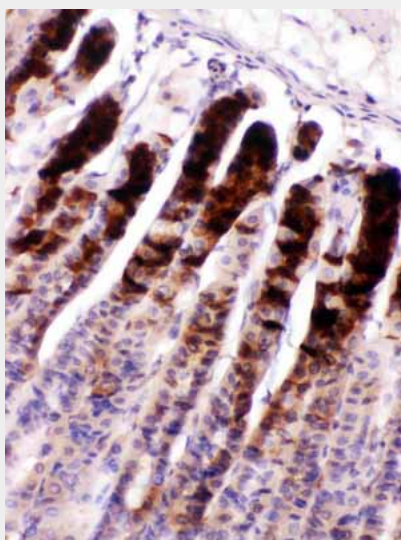
Provided below are standard protocols that you may find useful for product applications.

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

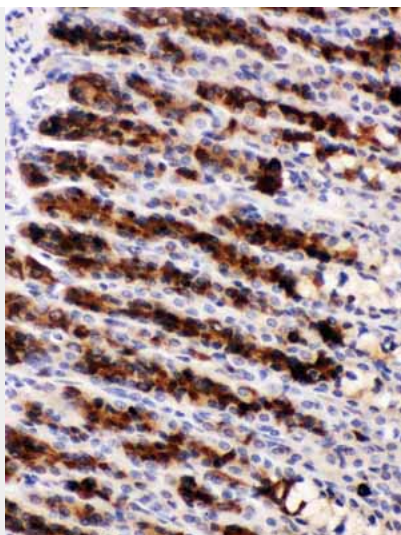
**Anti-Nesfatin-1 Picoband Antibody - Images**



Western blot analysis of Nucleobindin 2 expression in HEPA whole cell lysates (lane 1). Nucleobindin 2 at 55KD was detected using rabbit anti- Nucleobindin 2 Antigen Affinity purified polyclonal antibody (Catalog # ABO12562) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



Nucleobindin 2 was detected in paraffin-embedded sections of mouse gaster tissues using rabbit anti- Nucleobindin 2 Antigen Affinity purified polyclonal antibody (Catalog # ABO12562) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



Nucleobindin 2 was detected in paraffin-embedded sections of rat gaster tissues using rabbit anti-Nucleobindin 2 Antigen Affinity purified polyclonal antibody (Catalog # ABO12562) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .

#### **Anti-Nesfatin-1 Picoband Antibody - Background**

Nucleobindin-2 is a calcium-binding EF-hand protein that in humans is encoded by the NUCB2 gene. By exon trapping and sequence analysis, the NUCB2 sequence has been identified on chromosome 11p15-p14. This gene encodes a protein with a suggested role in calcium level maintenance, eating regulation in the hypothalamus, and release of tumor necrosis factor from vascular endothelial cells.