

Anti-Nesfatin-1 Picoband Antibody

Catalog # ABO12562

Product Information

Application	WB, IHC-P, E
Primary Accession	P81117
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.

Additional Information

Gene ID	53322
Other Names	Nucleobindin-2, DNA-binding protein NEFA, Prepronesfatin, Nesfatin-1, Nucb2, Nefa
Calculated MW	50304
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Mouse, Rat, By Heat ELISA , 0.1-0.5 μ g/ml, Mouse, - Western blot, 0.1-0.5 μ g/ml, Mouse
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. .
Source	Eukaryota
Protein Name	Nucleobindin-2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

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.

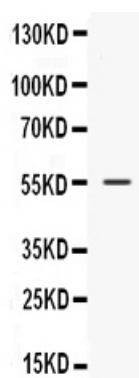
Protein Information

Name	Nucb2
Synonyms	Nefa
Function	Calcium-binding protein which may have a role in calcium homeostasis (PubMed: 10915798). 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	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

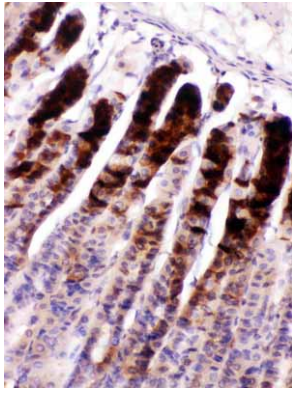
Background

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.

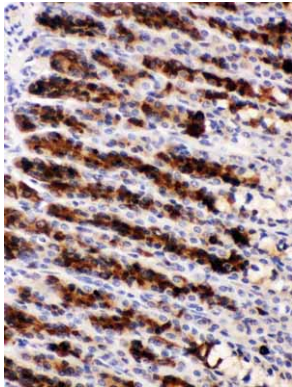
Images



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 µg/mL. The blot was developed using chemiluminescence (ECL) method .



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



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.