



## **Rabbit anti NEFA/NUCB2 Polyclonal Antibody**

**Alternative Name(s): Nucleobindin 2**

### **Order Information**

- **Description:** NEFA/NUCB2
- **Catalogue:** 600-660
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide corresponding to the internal sequence (a portion from 120aa-180aa) of mouse NEFA protein. This sequence is identical to mouse and rat.

### **BACKGROUND**

NEFA, a 420 amino acid protein (also known as NUCB2, nucleobindin 2, p54), is a DNA-binding protein localizing in the Golgi Apparatus. This protein has been implicated in various functions, including Ca<sup>2+</sup> homeostasis, hypothalamic regulation of feeding and TNF-receptor-1 (TNFR1) shedding. NUCB2 has been shown to interact with both necdin and ARTS-1, both through the EF-hand motif. The NUCB2-ARTS-1 complex is required for the proteolytic cleavage and release of TNFR1 to the extracellular compartment. NUCB2 has been identified as a novel satiety molecule in the hypothalamus associated with melanocortin signaling in the central nervous system. NUCB2 and its N-terminal 82-amino acid cleavage fragment, termed nesfatin-1, have been shown to induce suppression of food-intake in rats.

### **PURIFICATION**

The Rabbit IgG is purified by Epitope Affinity Purification

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~54 kDa of NEFAS protein. It reacts with rat and mouse. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 54.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

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## DATA ATTACHMENTS

**MW**  
**kDa**  
**100-**

**75-**

**50-**

**37-**

**25-**



Western Blot: The tissue lysate derived from mouse brain was resolved onto 10% SDS-PAGE, transferred onto NC membrane, and immunoprobed by Rabbit anti NEFA antibody (Cat#600-660) at 1:1000. An immunoreactive band around ~54 kDa was observed.

## REFERENCES

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