

For Research Use Only

# NUCB2/nesfatin-1 Recombinant antibody

Catalog Number: 83917-2-RR



## Basic Information

Catalog Number:

83917-2-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25152

GenBank Accession Number:

NM\_005013

GeneID (NCBI):

4925

UNIPROT ID:

P80303

Full Name:

nucleobindin 2

Calculated MW:

50 kDa

Observed MW:

45-50 kDa

Purification Method:

Protein A purification

CloneNo.:

241037D8

Recommended Dilutions:

WB 1:5000-1:50000

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : MCF-7 cells, mouse testis tissue, C6 cells, mouse spleen tissue, mouse brain tissue, rat brain tissue

## Background Information

NucB2, an anorexigenic molecule, is expressed mainly in the hypothalamus, particularly in the supraoptic nucleus (SON) and the paraventricular nucleus (PVN). NucB2 is also expressed in the subfornical organ (SFO). Because the SON and PVN are involved in body fluid regulation, NucB2 may be involved in dehydration-induced anorexia. NUCB2 is composed of a signal peptide of 24 amino acids in the N-terminal region and a protein structure containing 396 amino acids. Nesfatin-1 is an 82-amino-acid peptide hormone cleaved from nucleobindin2 (NUCB2).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

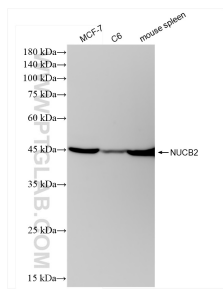
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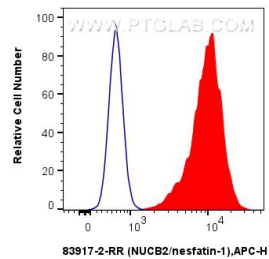
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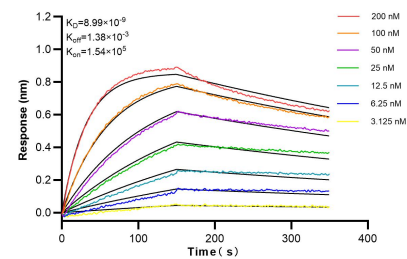
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83917-2-RR (NUCB2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HepG2 cells were intracellularly stained with 0.25 ug NUCB2/nesfatin-1 Recombinant antibody (83917-2-RR, Clone:241037D8) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83917-2-RR against Human NUCB2/nesfatin-1 were performed. The affinity constant is 8.99 nM.