

Datasheet for ABIN1344143

NUCB2 Protein (AA 25-420) (His tag)[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	NUCB2
Protein Characteristics:	AA 25-420
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NUCB2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Nucleobindin-2 (mouse) (rec.)
Cross-Reactivity:	Mouse
Characteristics:	Mouse nucleobindin-2 (aa 25-420) is fused at the C-terminus to a His-tag.
Purity:	>90 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<1EU/µg purified protein (LAL test).

Target Details

Target:	NUCB2
Alternative Name:	Nucleobindin-2 (NUCB2 Products)

Target Details

Background: DNA-binding Protein NEFA, Prepronesfatin, Nucb2, Nesfatin

Nucleobindin-2 (NUCB2, Prepronesfatin) was first isolated in adipocytes, but is also expressed by gastric mucosa and pancreatic beta cells. This pattern of nucleobindin-2 expression, as well as the presence of nucleobindin-2 within the plasma of rodents and humans, strongly suggests that this compound may act as a circulating regulatory factor. NUCB2 can be cleaved into three polypeptides: nesfatin-1, nesfatin-2, and nesfatin-3. Anorexigenic effects have been described for nesfatin-1 that plays an important role in hypothalamic pathways regulating food intake and energy homeostasis and acting in a leptin-independent manner. Nesfatin-1 may also exert hypertensive roles and modulate blood pressure through directly acting on peripheral arterial resistance. Nucleobindin-2 is therefore reported to reduce food intake after administration, mostly referring to the cleaved peptide nesfatin-1. Excess nucleobindin-2/nesfatin-1 in the brain leads to a loss of appetite, lack of the protein in the brain leads to an increase of appetite.

Molecular Weight: ~55kDa (SDS-PAGE)

UniProt: [P81117](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 0.2µm-filtered solution in PBS, pH 7.2.

Handling Advice: After opening, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. For maximum product recovery after thawing, centrifuge the vial before opening the cap.

Storage: 4 °C,-20 °C

Storage Comment: Short Term Storage: +4°C
Long Term Storage: -20°C
Use & Stability: Stable for at least 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.

Expiry Date: 6 months