

Rabbit anti-Human NUCB1/Nucleobindin 1 Polyclonal Antibody | anti-NUCB1 antibody

Anti-NUCB1/Nucleobindin 1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256243	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

PRODUCT SYNONYMS

NUCB1/Nucleobindin 1; Polyclonal Antibody; Anti-NUCB1/Nucleobindin 1 Antibody; Rabbit Polyclonal; NUCB1/Nucleobindin 1 Antibody; Rabbit PAb; Antigen Affinity Purified; nucleobindin 1; Anti-CALNUC Antibody; Anti-NUC Antibody; anti-NUCB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human NUCB1/Nucleobindin 1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-NUCB1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	E Coli-derived Human NUCB1/Nucleobindin 1 fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human NUCB1/Nucleobindin 1 fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of NUCB1 in U2OS cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human NUCB1 polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



IHC (Immunohistochemistry)

Immunochemical staining of human NUCB1 in human brain with rabbit polyclonal antibody at 1:100 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

Related Product Information for anti-NUCB1 antibody	Nucleobindin 1 (NUCB1; also known as CALNUC, NUC) is is a Golgi-localized soluble protein with a signal peptide and multiple functional domains. NUCB1 contains an intriguing combination of DNA-and calcium-binding motifs, a trait that it shares with the protein Nucleobindin 2 (NUCB2; also known as nesfatin). NUCB2 has been implicated in several aspects of metabolic control and has been identified in some endocrine organs. NUCB1 is a highly conserved, multifunctional protein widely expressed in tissues and cells. It contains two EF-hand motifs which have been shown to play a crucial role in binding Ca(2+) ions. The cis-Golgi protein Nucleobindin-1 (NUCB1) is critical for MMP2 and MT1-MMP trafficking along with the Golgi apparatus. This process is Ca2+-dependent and is required for invasive MDA-MB-231 cell migration as well as for gelatin degradation in primary human macrophages.
References	Xue F, et al. (2016) Chip mediates down-regulation of nucleobindin-1 in preosteoblast cell line models. Cell Signal 28 (8): 1058-1065.Williams P, et al. (2014) Expression of nucleobindin 1 (nucb1) in pancreatic islets and other endocrine tissues. Cell Tissue Res 358 (2): 331-342.Tulke S, et al. (2016) Nucleobindin 1 (nucb1) is a golgi-resident marker of neurons. Neuroscience 314 179-188.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/nucb1-nucleobindin-1-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/256243>