

## Recombinant Mouse Nucleobindin-2, His-tagged

**Cat. No.** Nucb2-248M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse NUCB2 (His-tagged) produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain. The protein contains 417 amino acids and has a molecular mass of 49 kDa.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Nucleobindin-2 (NUCB2) is a EF-hand calcium-binding protein. Nucleobindin-2 takes part in calcium homeostasis and is a multifunctional protein that interacts with Ca (2+) nucleic acids & various regulatory proteins in different signaling pathways. NUCB2 is localized in neuronal perikarya and dendrites of mouse brain.
<b>Amino Acid Sequence</b>	GSSHHHHHH SGLVPRGSH MVPIDVDKTK VHNTPEVENA RIEPPDTGLY YDEYLKQVIE VLETPHFRF KLQKADIEEI RSGRLSQELD LVSHKVRTRL DELKRQEVGR LRMLIKAKLD ALQDTGMNHH LLLKQFEHLN HQNPNTFESR DLDMLIKAAT ADLEQYDRTR HEEFKKYEMMKEHERREYLK TLSEEKRKEE ESKFEEMKRK HEDHPKVNHP GSKDQLKEVW EETDGLDPND FDPKTFKFLH DVNNDGFLDE QELEALFTRE LEKVYNPQNA EDDMIEMEEE RLRMREHVMS EIDNNKDRLV TLEEFRLATE KKEFLEPDSW ETLDQQQLFT EDELKEYESI IAIQENELKKRAEELQKQKE DLQRQHDHLE AQKQYHQAV QHLEQKKLQQ GIAPSGPAGE LKFEPHT.
<b>Physical Appearance</b>	Sterile Filtered colorless solution.

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<b>Purity</b>	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Formulation</b>	The protein solution (1mg/ml) contains 20mM Tris-HCl pH-8, 0.1M NaCl and 1mM DTT.
<b>Stability</b>	NUCB2 although stable 14°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Nucb2 nucleobindin 2 [ Mus musculus ]</a>
<b>Synonyms</b>	Nucb2; nucleobindin 2; Nefa; Calnuc; AI607786
<b>Gene ID</b>	<a href="#">53322</a>
<b>mRNA Refseq</b>	<a href="#">NM_001130479</a>
<b>Protein Refseq</b>	<a href="#">NP_001123951</a>
<b>UniProt ID</b>	<a href="#">P81117</a>
<b>Chromosome Location</b>	7 F1
<b>Function</b>	DNA binding; calcium ion binding

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