NCALD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NCALD, Polyclonal Antibody
Full Product Name	NCALD, CT (NCALD, Neurocalcin-delta) (MaxLight 550)
Product Gene Name	anti-NCALD antibody
Product Synonym Names	NCALD; Neurocalcin-delta
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	22,245 Da
OMIM	606722
3D Structure	ModBase 3D Structure for P61601
Immunogen	NCALD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 154-182 amino acids from the C-terminal region of human NCALD.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-NCALD antibody	Antibodies; Signal Transduction
Applications Tested/Suitable for anti-NCALD antibody	Western Blot (WB), FLISA
Application Notes for anti-NCALD antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NCALD antibody	NCALD encodes a member of the neuronal calcium sensor (NCS) family of calcium-binding proteins. The protein contains an N-terminal myristoylation signal and four EF-hand calcium binding loops. The protein is cytosolic at resting calcium levels; however, elevated intracellular calcium levels induce a conformational change that exposes the myristoyl group, resulting in protein association with membranes and partial co-localization with the perinuclear trans-golgi network. The protein is thought to be a regulator of G protein-coupled receptor signal transduction. Several alternatively spliced variants of this gene have been determined, all of which encode the same protein; additional variants may exist but their biological validity has not been determined.
Product References and Citations for anti-NCALD antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Cirulli, E.T., et al. Eur. J. Hum. Genet. 18(7):815-820(2010). Gill, M.B., et al. J. Biol. Chem. 284(21):14503-14512(2009). Venkataraman, V., et al. Biochemistry 47(25):6590-6601(2008). Kamiyama, M., et al. Hum. Genet. 122 (3-4), 397-407 (2007).

Other Notes	Small volumes of anti-NCALD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NCALD purchase	MBS6324019 is an antibody targeting NCALD. Also known as NCALD, CT (NCALD, Neurocalcin-delta) (MaxLight 550). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NCALD. It may not necessarily be applicable to this product.

NCBI GI #	98985785
NCBI GeneID	83988
NCBI Accession #	NP_001035715.1
NCBI Related Accession #	NP_001035720.1
UniProt Primary Accession #	P61601
UniProt Secondary Accession #	P29554; Q8IYC3; Q9H0W2
UniProt Related Accession #	P61601
GenBank Nucleotide #	NM_001040625.1
NCBI Official Full Name	neurocalcin-delta
NCBI Official Synonym Full Names	neurocalcin delta
NCBI Official Symbol	NCALD
UniProt Protein Name	Neurocalcin-delta
Protein Family	Neurocalcin
UniProt Gene Name	NCALD
UniProt Entry Name	NCALD_HUMAN
NCBI Protein Information	neurocalcin-delta
NCBI Summary for NCALD	This gene encodes a member of the neuronal calcium sensor (NCS) family of calcium-binding proteins. The protein contains an N-terminal myristoylation signal and four EF-hand calcium binding loops. The protein is cytosolic at resting calcium levels; however, elevated intracellular calcium levels induce a conformational change that exposes the myristoyl group, resulting in protein association with membranes and partial co-localization with the perinuclear trans-golgi network. The protein is thought to be a regulator of G protein-coupled receptor signal transduction. Several alternatively spliced variants of this gene have been determined, all of which encode the same protein; additional variants may exist but their biological validity has not been determined. [provided by RefSeq, Jul 2008]
UniProt Comments for NCALD	NCALD: May be involved in the calcium-dependent regulation of rhodopsin phosphorylation. Binds three calcium ions. Belongs to the recoverin family. Chromosomal Location of Human Ortholog: 8q22.2 Cellular Component: clathrin coat of trans-Golgi network vesicle; intracellular; cytosol Molecular Function: tubulin binding; protein binding; clathrin binding; calcium ion binding; actin binding; alpha-tubulin binding Biological Process: vesicle-mediated transport; synaptic transmission; regulation of systemic arterial blood pressure; calcium-mediated signaling
Research Articles on NCALD	**1.** It is presumed that NCALD is related to diabetic nephropathy by promoting epithelial mesenchymal transform.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/ncald/6324019