Calcyon Neuron Specific Vesicular Protein (CALY) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Calcyon Neuron Specific Vesicular Protein (CALY), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Calcyon Neuron Specific Vesicular Protein (CALY)
Product Gene Name	anti-CALY antibody
Product Synonym Names	DRD1IP; CALCYON; NSG3; Dopamine Receptor D1 Interacting Protein
Immunogen Sequence	Met1~Asn63
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Concentration	>=100ug/ml (lot specific)
Specificity	The antibody is a rabbit polyclonal antibody raised against CALY. It has been selected for its ability to recognize CALY in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 4 degree C for frequent use. Aliquot and store at -20 degree C for 12 months. Avoid repeated freeze/thaw cycles. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: CALY (MBS2112358) PE Conjugated Antibody: CALY (MBS2118940)
Matching Pairs	PE Conjugated Antibody: CALY (MBS2118940) Immunogen: CALY (MBS2034588)
Molecular Weight	17,547 Da
OMIM	604647
3D Structure	ModBase 3D Structure for Q9NYX4
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Sequence	Met1~Asn63
Cross Reactivity	Human
Conjugation	PE
Product Categories/Family for anti-CALY antibody	Neuro Science
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CALY antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)

Related Product Information for anti-CALY antibody	MBS2118940 is an antibody targeting CALY. Also known as PE-Linked Polyclonal Antibody to Calcyon Neuron Specific Vesicular Protein (CALY). Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CALY 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.

ADDITIONAL DETAILS

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

NCBI GI #	7656955
NCBI GeneID	50632
NCBI Accession #	NP_056537.1
UniProt Primary Accession #	Q9NYX4
UniProt Secondary Accession #	Q5VWX3; Q5VWY5; Q5VWY6
UniProt Related Accession #	Q9NYX4
GenBank Nucleotide #	NM_015722.3
NCBI Official Full Name	neuron-specific vesicular protein calcyon
NCBI Official Synonym Full Names	calcyon neuron-specific vesicular protein
NCBI Official Symbol	CALY
NCBI Official Synonym Symbols	NSG3; DRD1IP
UniProt Protein Name	Neuron-specific vesicular protein calcyon
Protein Family	Neuron-specific vesicular protein calcyon
UniProt Gene Name	CALY
UniProt Synonym Gene Names	DRD1IP
UniProt Entry Name	CALY_HUMAN
NCBI Protein Information	neuron-specific vesicular protein calcyon; calcyon protein; D1 dopamine receptor-interacting protein; dopamine receptor D1 interacting protein; calcyon D1 dopamine receptor-interacting protein (CALCYON)
NCBI Summary for CALY	The protein encoded by this gene is a type II single transmembrane protein. It is required for maximal stimulated calcium release after stimulation of purinergic or muscarinic but not beta-adrenergic receptors. The encoded protein interacts with D1 dopamine receptor and may interact with other DA receptor subtypes and/or GPCRs. [provided by RefSeq, Jul 2008]
UniProt Comments for CALY	calcyon: Interacts with clathrin light chain A and stimulates clathrin self-assembly and clathrin-mediated endocytosis. Belongs to the NSG family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 10q26.3 Cellular Component: cytoplasmic vesicle membrane; integral to plasma membrane; cytoplasmic vesicle Molecular Function: protein complex binding; clathrin light chain binding Biological Process: clathrin cage assembly; dopamine receptor signaling pathway; positive regulation of endocytosis; endocytosis
Research Articles on CALY	**1.** Calcyon forms a novel ternary complex with dopamine D1 receptor through PSD-95 protein and plays a role in dopamine receptor internalization

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