Calmodulin (CAM) Antibody Pair Kit for Human

PRODUCT OVERVIEW

Product Name	Calmodulin (CAM), Antibody Pair Kit
Full Product Name	Human Calmodulin (CAM) Antibody Pair Kit (with Standard)
Product Gene Name	CAM antibody pair kit
Product Synonym Names	CALcium MODULated ProteIN
Species Reactivity	Human
Samples	Serum, Plasma, Tissue Homogenates and Other Biological Fluids
Detection Range	0.312-20ng/mL
Molecular Weight	16,838 Da
3D Structure	ModBase 3D Structure for P62157
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Standard	Recombinant CAM (Lyophilized, 1 vial-10ug)
Capture Antibody	Rabbit polyclonal antibody (Liquid, 1 vial-400mug/800muL)
Detection Antibody	Biotinylated Rabbit polyclonal antibody (Liquid, 1 vial-100mug/500muL)
Producte Usage	Raw materials can be used for preparation of 5x96T or 10x96T ELISA Kits.
Antibody Support Pack	Antibody Support Pack (Buffer Pack) is sold separately as catalog #MBS2090685
Product Categories/Family for CAM antibody pair kit	Signal transduction; Metabolic pathway; Apoptosis; Infection immunity
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for CAM antibody pair kit	ELISA (EIA), Chemiluminescence Immunoassays (CLIA), ELISPOT, Luminex
Related Product Information for CAM antibody pair kit	MBS2099243 is an antibody pair kit targeting CAM. Also known as Human Calmodulin (CAM) Antibody Pair Kit (with Standard). Reactive in Human.
Other Notes	Small volumes of CAM antibody pair kit 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 CAM. It may not necessarily be applicable to this product.

NCBI GI #	262073073
NCBI GeneID	326597
NCBI Accession #	NP_001159980.1
UniProt Primary Accession #	P62157
UniProt Secondary Accession #	P02593; P70667; P99014; Q08D84; Q2KJE6; Q61379; Q61380

UniProt Related Accession #	P62157
GenBank Nucleotide #	NM_001166508.2
NCBI Official Full Name	calmodulin
NCBI Official Symbol	CALM
NCBI Official Synonym Symbols	CALM2
UniProt Protein Name	Calmodulin
Protein Family	Calmodulin
UniProt Gene Name	CALM
UniProt Synonym Gene Names	CAM; CaM
NCBI Protein Information	calmodulin
UniProt Comments for CAM	Calmodulin mediates the control of a large number of enzymes, ion channels, aquaporins and other proteins by Ca2+. Among the enzymes to be stimulated by the calmodulin-Ca2+ complex are a number of protein kinases and phosphatases. Together with CCP110 and centrin, is involved in a genetic pathway that regulates the centrosome cycle and progression through cytokinesis ().
Research Articles on CAM	**1.** These findings suggest that lysoPC induces CaM phosphorylation at Tyr(99) by a Src family kinase and that phosphorylated CaM activates PI3K to produce PIP3, which promotes TRPC6 translocation to the cell membrane.
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