CALU Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CALU, Monoclonal Antibody
Full Product Name	CALU (Calumenin, FLJ90608) (MaxLight 490)
Product Gene Name	anti-CALU antibody
Product Synonym Names	Calumenin; FLJ90608
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	6C8
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes CALU.
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 amo
OMIM	603420
3D Structure	ModBase 3D Structure for O43852
Immunogen	CALU (NP_001210.1, 1aa-315aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MDLRQFLMCLSLCTAFALSKPTEKKDRVHHEPQLSDKVHNDAQSFDYDHDAFLGAEEAKTFDQLTPEESKERLGKIVSKIDGDKDGFVTVDELKDWIKFA
Conjugate	MaxLight490
Product Categories/Family for anti-CALU antibody	Antibodies; Proteins
Applications Tested/Suitable for anti-CALU antibody	Western Blot (WB)
Application Notes for anti-CALU antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CALU antibody	The product of this gene is a calcium-binding protein localized in the endoplasmic reticulum (ER) and it is involved in such ER functions as protein foldi
Other Notes	Small volumes of anti-CALU antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess

Searchable Terms for CALU purchase	MBS6205439 is an antibody targeting CALU. Also known as CALU (Calumenin, FLJ90608) (MaxLight 490). Host: Mouse.

ADDITIONAL DETAILS

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

NCBI GI #	4502551
NCBI GeneID	813
NCBI Accession #	NP_001210.1
UniProt Primary Accession #	O43852
UniProt Related Accession #	O43852
GenBank Nucleotide #	NP_001210.1
NCBI Official Full Name	calumenin isoform a
NCBI Official Synonym Full Names	calumenin
NCBI Official Symbol	CALU
UniProt Protein Name	Calumenin
UniProt Synonym Protein Names	Crocalbin; IEF SSP 9302
Protein Family	Calumenin
UniProt Gene Name	CALU
UniProt Entry Name	CALU_HUMAN
NCBI Protein Information	calumenin
UniProt Comments for CALU	CALU: Involved in regulation of vitamin K-dependent carboxylation of multiple N-terminal glutamate residues. Seems to inhibit gamma-carboxylase GGCX. Binds 7 calcium ions with a low affinity. Belongs to the CREC family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Calcium-binding; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 7q32.1 Cellular Component: Golgi apparatus; sarcoplasmic reticulum lumen; membrane; endoplasmic reticulum; extracellular region; melanosome Molecular Function: protein binding; calcium ion binding Biological Process: platelet activation; platelet degranulation; blood coagulation
Research Articles on CALU	**1.** Replacing Leu with Gly (L150G) in Calu1 enables the protein to adopt a structural fold even in the Ca(2+) free form. The fourth (of seven) EF-hand of HsCalu1 nucleates the structural fold of the protein depending on the switch residue (Gly or Leu).
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