

Rabbit CALM1 Polyclonal Antibody | anti-CALM1 antibody

CALM1 Antibody (C-term)

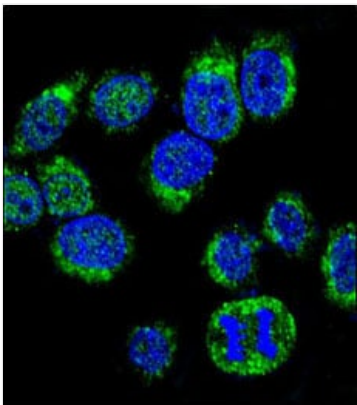
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290034	Rabbit	Predicted Reactivity: Human, Bovine, C Elegans, Chicken, Zebrafish, Drosophila, Mouse, Rabbit, Rat, Xenopus, Sheep	Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

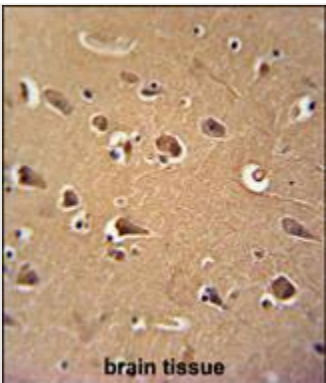
CALM1; Polyclonal Antibody; CALM1 Antibody (C-term); Calmodulin; CaM; CALM; CAM; CAM1; anti-CALM1 antibody

PRODUCT SPECIFICATIONS

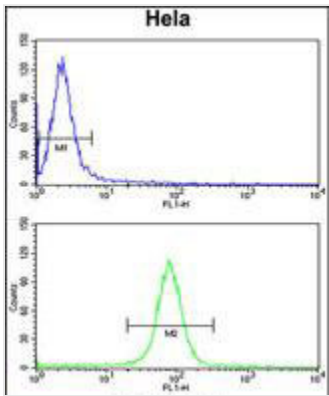
Host	Rabbit
Reactivity	Predicted Reactivity: Human, Bovine, C Elegans, Chicken, Zebrafish, Drosophila, Mouse, Rabbit, Rat, Xenopus, Sheep
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CALM1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 107-132 amino acids from the C-terminal region of human CALM1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Length	149
Applicable Applications for anti-CALM1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Antigen Region	107-132
Cellular location	Cytoplasm, cytoskeleton, spindle. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note - Distributed throughout the cell during interphase, but during mitosis becomes dramatically localized to the spindle poles and the spindle microtubules
Function	Calmodulin mediates the control of a large number of enzymes, ion channels, aquaporins and other proteins through calcium-binding. Among the enzymes to be stimulated by the calmodulin-calcium 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 (PubMed:). Is a regulator of voltage-dependent L-type calcium channels (PubMed:). Mediates calcium-dependent inactivation of CACNA1C (PubMed:). Positively regulates calcium-activated potassium channel activity of KCNN2 (PubMed:). Forms a potassium channel complex with KCNQ1 and regulates electrophysiological activity of the channel via calcium-binding (PubMed:). Acts as a sensor to modulate the endoplasmic reticulum contacts with other organelles mediated by VMP1:ATP2A2 (PubMed:).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



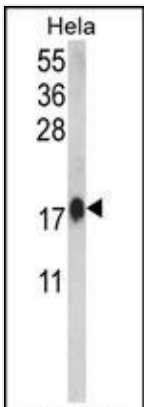
IF (Immunofluorescence)
Confocal immunofluorescent analysis of CALM1 Antibody (C-term) (AAA290034) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



IHC (Immunohistochemistry)
CALM1 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CALM1 Antibody (C-term) (AAA290034) for immunohistochemistry. Clinical relevance has not been evaluated.



FCM/FACS (Flow Cytometry)
CALM1 Antibody (C-term) (AAA290034) flow cytometry analysis of Hela cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)
Western blot analysis of CALM1 Antibody (C-term) (AAA290034) in Hela cell line lysates (35ug/lane). CALM1 (arrow) was detected using the purified Pab.(2ug/ml)

ADDITIONAL INFORMATION

Related Product Information for anti-CALM1 antibody	CALM1 is a member of the EF-hand calcium-binding protein family.Calmodulin mediates the control of a large number of enzymes and other proteins by Ca(2+). Among the enzymes to be stimulated by the calmodulin-Ca(2+) complex are a number of protein kinases and phosphatases. Together with CEP110 and centrin, is involved in a genetic pathway that regulates the centrosome cycle and progression through cytokinesis.
Product Categories/Family for anti-CALM1 antibody	Cancer; Cardiovascular; Cell Biology; Microbiology; Signal Transduction
References	Zhao,D., et.al., Zhonghua Yi Xue Za Zhi 88 (35), 2452-2456 (2008) Martins-de-Souza,D., et.al., J. Neural Transm. 116 (3), 275-289 (2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502549
NCBI GeneID	805; 801; 808
NCBI Accession #	P0DP23; NP_005175.2; NP_008819.1
NCBI GenBank Nucleotide #	NM_001743.5
UniProt Accession #	P62158; P02593; P70667; P99014; Q13942; Q53S29; Q61379; Q61380; Q96HK3

NCBI Official Full Name	calmodulin isoform 2
NCBI Official Synonym Full Names	calmodulin 2 (phosphorylase kinase, delta)
NCBI Official Symbol	CALM2
NCBI Official Synonym Symbols	caM; PHKD; CAMII; LQT15; PHKD2
NCBI Protein Information	calmodulin
UniProt Protein Name	Calmodulin
UniProt Gene Name	CALM1
UniProt Synonym Gene Names	CALM; CAM; CAM1; CaM
UniProt Entry Name	CALM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/calm1-antibody-immunofluorescence-immunohistochemistry-flow-cytometry-western-blot-elisa/290034>