

Rabbit anti-Human CALML3 Polyclonal Antibody | anti-CALML3 antibody

Anti-CALML3 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255583	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, ELISA, Western Blot

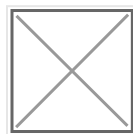
PRODUCT SYNONYMS

CALML3; Polyclonal Antibody; Anti-CALML3 Antibody; Rabbit Polyclonal; CALML3 Antibody; Rabbit PAb; Antigen Affinity Purified; calmodulin-like 3; Anti-CLP Antibody; anti-CALML3 antibody

PRODUCT SPECIFICATIONS

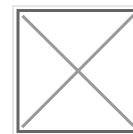
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human CALML3
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CALML3 antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Immunogen	Recombinant Human CALML3 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human CALML3 (rh CALML3). CALML3 specific IgG was purified by Human CALML3 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-CALML3 rabbit polyclonal antibody at 1:500 dilution Lane A: A431 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 17 kDa Observed band size: 15 kDa



IP (Immunoprecipitation)

CALML3 was immunoprecipitated using: Lane A: 0.5 mg A431 Whole Cell Lysate 2 uL anti-CALML3 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-CALML3 rabbit polyclonal antibody, at 1:1000 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 17 kDa Observed band size: 17 kDa



IHC (Immunohistochemistry)
Immunochemical staining of human CALML3 in human breast carcinoma (from 4 donors) with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-CALML3 antibody	Calmodulin-like protein 3 (CALML3) is similar to that of authentic calmodulin and may actually compete with calmodulin by binding, with different affinity, to cellular substrates. Calmodulin-like protein 3 (CALML3) is a tumor-sensitive protein specifically expressed in normal epithelial cells but downregulated in tumorigenesis. Downregulation of the protein is an early event in breast cancer development. One of the most pressing questions raised by the discovery of CLP/CALML3 is that of its potential targets. Although it is 85% identical to human calmodulin, the distinct properties of CLP suggest that it has specific targets or targets that only partially overlap with those of calmodulin. Research has identified the unconventional myosin-10 (Myo10) as a specific target of CALML3. The discovery of Myo10 as a specific target of CALML3 is highly significant and suggests multiple lines of further research such as investigations of the Ca2+ regulation of Myo10 and the role of the loss of CLP in epithelial differentiation, adhesion, and cancer. Cells expressing CALML3 displayed a striking increase in the number and length of myosin-10-positive filopodia and showed increased mobility in a wound healing assay.
Product Categories/Family for anti-CALML3 antibody	Actin Dynamics Signaling Pathway
References	Bennett RD, et al. (2007) Calmodulin-like protein increases filopodia-dependent cell motility via up-regulation of myosin-10. J Biol Chem. 282(5): 3205-12.Perochon A, et al. (2011) Calmodulin and calmodulin-like proteins in plant calcium signaling. Biochimie. 93(12): 2048-53.Chinpongpanich A, et al. (2011) Biophysical characterization of calmodulin and calmodulin-like proteins from rice, Oryza sativa L. Acta Biochim Biophys Sin (Shanghai). 43(11): 867-76.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885111
NCBI GeneID	810
NCBI Accession #	NP_005176.1
NCBI GenBank Nucleotide #	NM_005185.3
UniProt Accession #	P27482; Q5SQQ4; B2R9V6
Molecular Weight	16,891 Da
NCBI Official Full Name	calmodulin-like protein 3
NCBI Official Synonym Full Names	calmodulin-like 3
NCBI Official Symbol	CALML3
NCBI Official Synonym Symbols	CLP
NCBI Protein Information	calmodulin-like protein 3; caM-like protein; calmodulin-related protein NB-1
UniProt Protein Name	Calmodulin-like protein 3
UniProt Gene Name	CALML3
UniProt Synonym Gene Names	CLP
UniProt Entry Name	CALL3_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.

