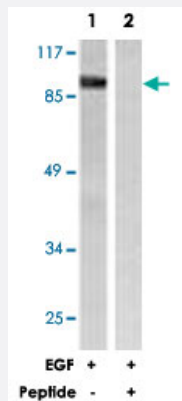


CALD1 polyclonal antibody

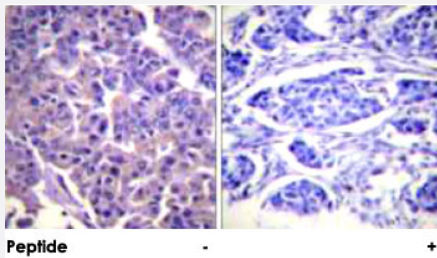
Catalog # PAB18164 Size 100 ug

Applications



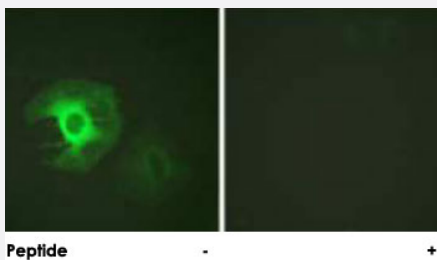
Western Blot (Cell lysate)

Western blot analysis of extracts from HeLa cells, treated with EGF (200 ng/mL, 30 mins), using CALD1 polyclonal antibody (Cat # PAB18164). Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CALD1 polyclonal antibody (Cat # PAB18164). Peptide "+" means "peptide blocking".



Immunofluorescence

Immunofluorescence analysis of HeLa cells, using CALD1 polyclonal antibody (Cat # PAB18164). Peptide "+" means "peptide blocking".

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of CALD1.

Immunogen	A synthetic peptide corresponding to human CALD1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to CALD1.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:500-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from HeLa cells, treated with EGF (200 ng/mL, 30 mins), using CALD1 polyclonal antibody (Cat # PAB18164).

Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CALD1 polyclonal antibody (Cat # PAB18164).

Peptide "+" means "peptide blocking".

- Immunofluorescence

Immunofluorescence analysis of HeLa cells, using CALD1 polyclonal antibody (Cat # PAB18164).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CALD1

Entrez GeneID [800](#)

Protein Accession# [Q05682](#)

Gene Name CALD1

Gene Alias CDM, H-CAD, L-CAD, MGC21352, NAG22

Gene Description caldesmon 1

Omim ID [114213](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a calmodulin- and actin-binding protein that plays an essential role in the regulation of smooth muscle and nonmuscle contraction. The conserved domain of this protein possesses the binding activities to Ca(2+)-calmodulin, actin, tropomyosin, myosin, and phospholipids. This protein is a potent inhibitor of the actin-tropomyosin activated myosin MgATPase, and serves as a mediating factor for Ca(2+)-dependent inhibition of smooth muscle contraction. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq]

Other Designations -

Publication Reference

- [Caldesmon is an integral component of podosomes in smooth muscle cells.](#)

Eves R, Webb BA, Zhou S, Mak AS.

Journal of Cell Science 2006 May; 119(Pt 9):1691.

- [Mutant Caldesmon lacking cdc2 phosphorylation sites delays M-phase entry and inhibits cytokinesis.](#)

Yamashiro S, Chern H, Yamakita Y, Matsumura F.

Molecular Biology of the Cell 2001 Jan; 12(1):239.

Pathway

- [Vascular smooth muscle contraction](#)

Disease

- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Genetic Predisposition to Disease](#)
- [Tobacco Use Disorder](#)