

For Research Use Only

Calmodulin Polyclonal antibody

Catalog Number: 10541-1-AP

18 Publications



Basic Information

Catalog Number:

10541-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0827

GenBank Accession Number:

BC006182

GeneID (NCBI):

808

UNIPROT ID:

P62158

Full Name:

calmodulin 3 (phosphorylase kinase, delta)

Calculated MW:

17 kDa

Observed MW:

17 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: mouse skeletal muscle tissue, HepG2 cells, mouse brain tissue, MCF-7 cells, HeLa cells, NCCIT cells, rat skeletal muscle tissue

IP: Ramos cells,

IHC: human breast cancer tissue, mouse testis tissue

Background Information

Calmodulin (CaM) is a Ca²⁺-binding protein that transduces Ca²⁺-mediated signals by binding to and regulating the activity of hundreds of enzymes and non-enzymatic proteins. It is highly conserved across species and involved in many biological processes, including vesicle release, cell proliferation, and apoptosis. This antibody can recognize CALM1, CALM2 and CALM3.

Notable Publications

Author	Pubmed ID	Journal	Application
Weiwei Yang	29416594	Oncotarget	IP
Liang Zhou	33248694	Biochem Biophys Res Commun	WB
Lai-Ling Du	29532428	J Cardiovasc Transl Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

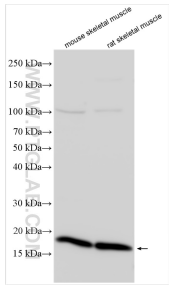
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

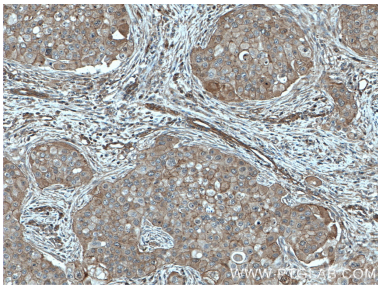
E: proteintech@ptglab.com
W: ptglab.com

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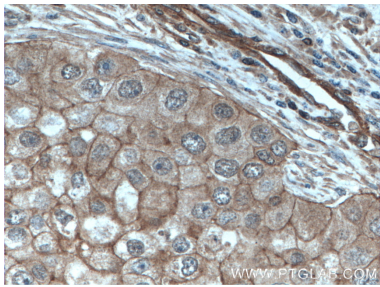
Selected Validation Data



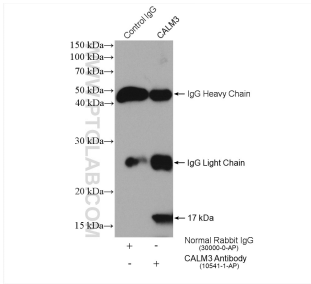
Various lysates were subjected to SDS PAGE followed by western blot with 10541-1-AP (Calmodulin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



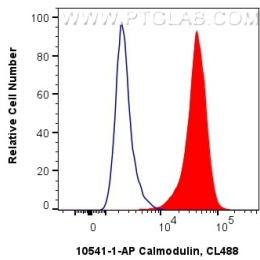
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10541-1-AP (Calmodulin antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



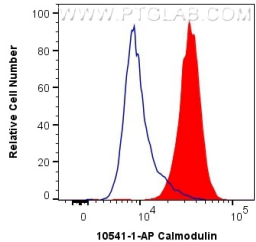
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10541-1-AP (Calmodulin antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Calmodulin (IP:10541-1-AP, 2ug; Detection:10541-1-AP 1:600) with Ramos cells lysate 1120 ug.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human Calmodulin (10541-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone:) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1X10⁶ MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human Calmodulin (10541-1-AP) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).