

## PCP4 Antibody

Catalog No: #35549

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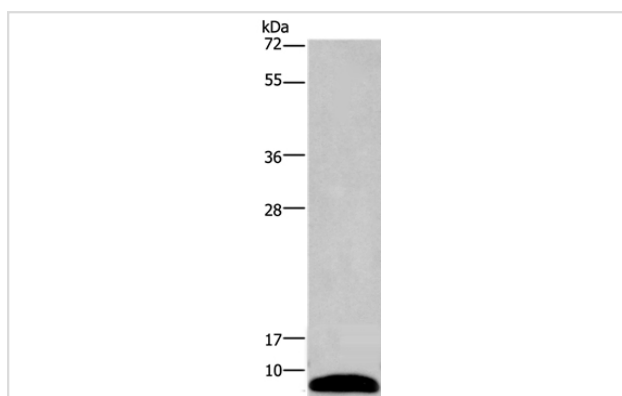
## Description

Product Name	PCP4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification.
Applications	WB,ELISA
Species Reactivity	Human, Mouse, Rat
Specificity	The antibody detects endogenous levels of total PCP4 protein.
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide of human PCP4
Target Name	PCP4
Other Names	PEP-19
Accession No.	Swiss-Prot#: P48539NCBI Gene ID: 5121Gene Accssion: BC013791
Uniprot	P48539
GeneID	5121;
SDS-PAGE MW	7kd
Concentration	0.6 mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:500-1:2000

## Images



Gel: 12%SDS-PAGE  
 Lysate: 40 ug  
 Lane: Mouse heart tissue lysate  
 Primary antibody: (PCP4 Antibody) at dilution 1/500  
 Secondary antibody: (HRP-conjugated Goat anti rabbit IgG) at 1/5000 dilution  
 Exposure time: 5 minutes

## Background

PCP-4 (Purkinje cell protein 4), also known as PEP-19, is a calmodulin (CaM) regulatory protein that is highly expressed in neuronal cells. Through its IQ motif, PCP-4 mediates both the calcium-dependent binding properties of CaM and the rates of association and dissociation of calcium from the

C-terminal domain of CaM. The IQ motif contains a serine residue which can be phosphorylated by all isoforms of protein kinase C (PKC). PCP-4 is implicated in uterine leiomyomas, as well as in neurodegenerative disorders such as Alzheimer's disease and Huntington's disease. Additionally, overexpression of PCP-4 is thought to play a role in cerebellar hypoplasia, a key feature of Down syndrome.

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Note: This product is for in vitro research use only