

# PCP4 Conjugated Antibody

Catalog No: #C35549

Package Size: #C35549-AF350 100ul #C35549-AF405 100ul #C35549-AF488 100ul #C35549-AF555 100ul #C35549-AF594 100ul #C35549-AF647 100ul #C35549-AF680 100ul #C35549-AF750 100ul #C35549-Biotin 100ul #C35549-Conjugated 50ul

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## Description

Product Name	PCP4 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB,ELISA,IF
Species Reactivity	Hu Ms, Rt
Specificity	The antibody detects endogenous levels of total PCP4 protein.
Immunogen Description	Fusion protein corresponding to a region derived from internal residues of human purkinje cell protein 4
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	PEP-19
Accession No.	Swiss-Prot#:P48539NCBI Gene ID:5121NCBI mRNA#:NCBI Protein#:BC013791
Calculated MW	7
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

WB: 1:50-1:200

IF:1:50-1:200

## 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.

**Note:** This product is for in vitro research use only and is not intended for use in humans or animals.