

Store at -20C
#4300

PDAP1 Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit	UniProt ID: #Q13442	Entrez-Gene Id: 11333
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Product Usage Information**Application**Western Blotting
Immunoprecipitation**Dilution**1:1000
1:50**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

PDAP1 Antibody detects endogenous levels of total PDAP1 protein. Nonspecific bands are seen above 60 kDa.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the center of human PDAP1 protein. Antibodies were purified by protein A and peptide affinity chromatography.

Background

Platelet derived growth factor (PDGF) proteins function as dimeric isoforms (i.e., PDGF AA, PDGF AB, PDGF BB, PDGF CC and PDGF DD) that bind receptor tyrosine kinases and activate cytoplasmic SH2 domain-containing proteins to control multiple signaling pathways that regulate angiogenesis, cell growth, actin reorganization, migration and differentiation (1). PDGFA-associated protein 1 (PDAP1) was originally identified as a novel, PDGF-associated protein found in a rat retinal tumor cell line (2). While copurified with PDGFA, PDAP1 interacts with PDGFB at a slightly higher affinity than with PDGFA (2). Although the exact function of PDAP1 is unclear, it has been shown to both increase PDGFA-induced incorporation of [³H]thymidine in Swiss 3T3 cells and decrease PDGFB growth factor activity (2). Ubiquitously expressed PDAP1 is highly conserved among species (2,3) and is phosphorylated *in vitro* by several kinases, including PKC, PKA, CKI and CKII. Among this group, CKII seems to be the major kinase that phosphorylates PDAP1 in intact cells (3).

Background References

- Ostman, A. and Heldin, C.H. (2001) *Adv Cancer Res* 80, 1-38.
- Fischer, W.H. and Schubert, D. (1996) *J Neurochem* 66, 2213-6.
- Shen, L. et al. (1996) *Arch Biochem Biophys* 327, 131-41.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key**W:** Western Blotting **IP:** Immunoprecipitation**Cross-Reactivity Key****H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey**Trademarks and Patents**

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