

## PDAP1 Antibody



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

| Applications:                    | Reactivity:   | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|----------------------------------|---|--------------|-----------|-----------------|-------------|-----------------|
| W, IP                            | H M R Mk  | Endogenous   | 25        | Rabbit          | #Q13442     | 11333           |
| <b>Product Usage Information</b> | <b>Application</b>  |              |           |                 |             | <b>Dilution</b> |
|                                  | Western Blotting  |              |           |                 |             | 1:1000          |
|                                  | Immunoprecipitation   |              |           |                 |             | 1:50            |
| <b>Storage</b>                   | 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.  |              |           |                 |             |                 |
| <b>Specificity/Sensitivity</b>   | PDAP1 Antibody detects endogenous levels of total PDAP1 protein. Nonspecific bands are seen above 60 KDa.   |              |           |                 |             |                 |
| <b>Source / Purification</b>     | 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.  |              |           |                 |             |                 |
| <b>Background</b>                | 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 [ <sup>3</sup> H]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 <i>in vitro</i> 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). |              |           |                 |             |                 |
| <b>Background References</b>     | 1. Ostman, A. and Heldin, C.H. (2001) <i>Adv Cancer Res</i> 80, 1-38.<br>2. Fischer, W.H. and Schubert, D. (1996) <i>J Neurochem</i> 66, 2213-6.<br>3. Shen, L. et al. (1996) <i>Arch Biochem Biophys</i> 327, 131-41.  |              |           |                 |             |                 |

|                               |  |
|-------------------------------|--|
| <b>Species Reactivity</b>     | Species reactivity is determined by testing in at least one approved application (e.g., western blot).   |
| <b>Western Blot Buffer</b>    | 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.   |
| <b>Applications Key</b>       | <b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation  |
| <b>Cross-Reactivity Key</b>   | <b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat <b>Mk:</b> Monkey  |
| <b>Trademarks and Patents</b> | Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.<br><br>All other trademarks are the property of their respective owners. Visit <a href="http://cellsignal.com/trademarks">cellsignal.com/trademarks</a> for more information.  |
| <b>Limited Uses</b>           | Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.<br><br>Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any |

purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.