

**DAP1 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	Endogenous	15	Rabbit	#P51397	1611

**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**

DAP1 Antibody detects endogenous levels of total DAP1 protein. It does not cross-react with other DAP family members.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 94 of human DAP1. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**

Death associated protein 1 (DAP1) is a 15 kDa protein that functions as a positive mediator of cell death initiated by interferon-gamma (1, 2). The DAP1 protein is proline rich and possesses one SH3 binding motif, as well as several consensus protein kinase phosphorylation sites (1). The protein is localized in the cytoplasm, but the detailed mechanism of its proapoptotic function is unclear. Death associated protein 3 (DAP3) is widely expressed, and the expression is upregulated during membrane receptor-mediated apoptosis. In interferon-gamma- and Fas-induced apoptosis, DAP3 acts as a positive mediator, functioning downstream of the receptor signaling complex and upstream of the effector caspases (3,4). Death associated protein 5 (DAP5) is a 97 kDa protein with a high degree of amino acid sequence homology to eukaryotic translation initiation factor 4G (eIF4G) (1,5). Compared with eIF4G, DAP5 lacks the amino-terminal region necessary for cap-dependent translation, and has a unique carboxy-terminal region that functions as a regulator of interferon-gamma-induced cell death (5,6). During induction of apoptosis, DAP5 is cleaved at aspartic acid 790. The carboxy-terminal truncated form of DAP5 functions as a cap-independent translation initiation factor responsible for the mediation of its own translation during apoptosis (7).

**Background References**

1. Deiss, L.P. et al. (1995) *Genes Dev* 9, 15-30.
2. Levy-Strumpf, N. and Kimchi, A. (1998) *Oncogene* 17, 3331-40.
3. Kissil, J.L. et al. (1995) *J Biol Chem* 270, 27932-6.
4. Kissil, J.L. et al. (1999) *EMBO J* 18, 353-62.
5. Imataka, H. et al. (1997) *EMBO J* 16, 817-25.
6. Levy-Strumpf, N. et al. (1997) *Mol Cell Biol* 17, 1615-25.
7. Henis-Korenblit, S. et al. (2000) *Mol Cell Biol* 20, 496-506.

**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 nonfat dry milk, 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

**Trademarks and Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit [cellsignal.com/trademarks](http://cellsignal.com/trademarks) for more information.

## Limited Uses

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.

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.