

DAP3 Antibody

100 µl
 (10 Western mini-blots)

Orders ■ 877-616-CELL (2355)
 orders@cellsignal.com
Support ■ 877-678-TECH (8324)
 info@cellsignal.com
Web ■ www.cellsignal.com

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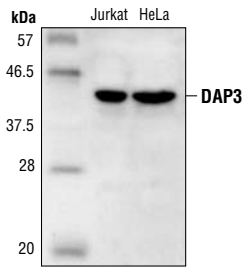
This product is for *in vitro* research use only and is not intended for use in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W	H	46 kDa	Rabbit

Background: Death associated protein 1 (DAP1) is a 15 kDa protein that functions as a positive mediator of cell death initiated by interferon- γ (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- γ - 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- γ -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).

Specificity/Sensitivity: DAP3 Antibody detects endogenous levels of total DAP3 protein. The antibody does not cross-react with other DAP family members.

Source/Purification: Polyclonal antibodies are produced by immunizing rabbits with a synthetic peptide (KLH-coupled) corresponding to residues surrounding Lys58 of human DAP3. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from Jurkat and HeLa cells, using DAP3 Antibody.

Background References:

- (1) Deiss, L. P. et al. (1995) *Genes Dev.* 9, 15–30.
- (2) Levy-Strumpf, N. and Kimchi, A. (1998) *Oncogene* 17, 3331–3340.
- (3) Kissil, J. L. et al. (1995) *J. Biol. Chem.* 270, 27932–27936.
- (4) Kissil, J. L. et al. (1999) *EMBO J.* 18, 353–362.
- (5) Imataka, H. et al. (1997) *EMBO J.* 16, 817–825.
- (6) Levy-Strumpf, N. et al. (1997) *Mol. Cell. Biol.* 17, 1615–1625.
- (7) Henis-Korenblit, S. et al. (2000) *Mol. Cell. Biol.* 20, 496–506.

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.

*Species cross-reactivity is determined by Western blot.

Recommended Antibody Dilutions:
 Western Blotting 1:1000

- Companion Products:**
- DAP1 Antibody #2282
 - DAP5 Antibody #2182
 - Phototope[®]-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071
 - Anti-rabbit IgG, HRP-linked Antibody #7074
 - Prestained Protein Marker, Broad Range (Premixed Format) #7720
 - Biotinylated Protein Ladder #7727
 - 20X LumiGLO[®] Reagent and 20X Peroxide #7003

IMPORTANT: For Western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.