

<b>#2282</b> Store at -20C	DAP1 Antibody	
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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

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