

#12492 Store at -20°C

DAP12 (D7G1X) Rabbit mAb



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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:
WB, W-S, IP	H M	Endogenous	10, 12	Rabbit IgG

Product Usage Information	Application Western Blotting Simple Western™ Immunoprecipitation	Dilution 1:1000 1:10 - 1:50 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	DAP12 (D7G1X) Rabbit mAb recognizes endogenous levels of total DAP12 protein.	
Species predicted to react based on 100% sequence homology:	Monkey, Bovine, Dog	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human DAP12 protein.	
Background	DNAX-activating protein 12 (DAP12, TYROBP) is a signaling adaptor for several pathogen receptors expressed by cells of the innate immune system (1). The DAP12 protein structure consists of a short extracellular domain, a transmembrane domain, and a cytoplasmic immunoreceptor tyrosine-based activation motif (ITAM) (2). DAP12 protein is expressed by hematopoietic cells, including NK cells, monocytes, macrophages, dendritic cells, mast cells, basophils, eosinophils, neutrophils, and some γδ T cells and NKT cells (1). DAP12 exists as a homodimer that associates with a variety of receptors involved in pathogen detection, including the KIR family of NK cell receptors (2,3). Ligand binding by DAP12-associated receptors results in phosphorylation of tyrosine residues within the DAP12 ITAM by Src family kinases and leads to activation of Syk or Zap-70 and downstream signaling responses (2).	
Background References	1. Lanier, L.L. (2009) <i>Immunol Rev</i> 227, 150-60. 2. Lanier, L.L. et al. (1998) <i>Nature</i> 391, 703-7. 3. Bakker, A.B. et al. (1999) <i>Proc Natl Acad Sci U S A</i> 96, 9792-6.	

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	WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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