

## DAP12 (D7G1X) Rabbit mAb



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

<b>Applications:</b> W, W-S, IP	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 10, 12	<b>Source/Isotype:</b> Rabbit IgG	
Product Usage Information		<b>Application</b> Western Blotting Simple Western™		1:	ilution :1000 :10 - 1:50
		Immunoprecipitation		1:	:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/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 $\gamma\delta$ 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 Reactivi	ty	Species reactivity is determ	nined by testing in at	least one approved app	lication (e.g., western blot).
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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** W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse

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