

Store at
-20C
#91939**DAP12 (D7G1X) Rabbit mAb (Biotinylated)**

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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	H M	Endogenous	10, 12	Rabbit IgG	#O43914	7305

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

DAP12 (D7G1X) Rabbit mAb (Biotinylated) 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.

Description

This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated DAP12 (D7G1X) Rabbit mAb #12492.

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) *Immunol Rev* 227, 150-60.
2. Lanier, L.L. et al. (1998) *Nature* 391, 703-7.
3. Bakker, A.B. et al. (1999) *Proc Natl Acad Sci U S A* 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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse

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