

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DAP12 in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 406288
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human Dap12 synthetic peptide QGQRSDVYSDLNTQRPYYK Accession # O43914
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human peripheral blood CD56 ⁺ natural killer cells fixed with paraformaldehyde and permeabilized with saponin

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

DAP12, also known as TYROBP and KARAP, is a transmembrane protein that functions as a signal transduction adaptor molecule. DAP12 is expressed as a disulfide-linked homodimer that associates with a variety of receptors on NK and myeloid cells. Complex formation is mediated by intramembrane ionic interaction between an aspartic acid residue in DAP12 and a lysine residue in the partnered receptor. Ligation of these receptors can trigger either cell activation or inhibition through the ITAM sequence in DAP12, resulting in activation of Src family tyrosine kinases. Human and mouse DAP12 share 73% amino acid sequence identity.

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