

Purified Rabbit Anti-rat DAP12

Catalog Number: TP271

Lot Number: 121618

Content: Protein G purified rabbit IgG, 200 µg, with 0.1% sodium azide, lyophilized.

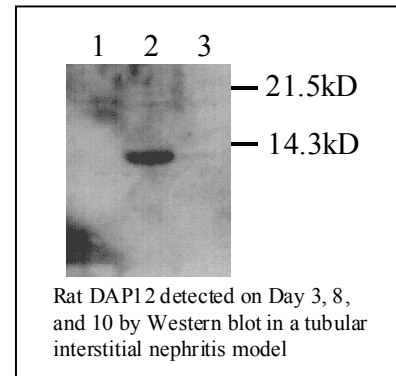
(Reconstitute to 1 mg/ml by adding 200 µl PBS)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with both recombinant and natural rat DAP12, was generated using *E. coli*-expressed rat DAP12 peptide (amino acid 28-40) as an immunogen. The tested titer for Western blot is 1:1,000.

Cross-reactivity to DAP12 of other species has not been determined.

Storage Condition: 4 C for short term storage or -20 C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: : DAP12 (KARAP) is a natural killer (NK) cell-expressed cell surface receptor and belongs to the immunoglobulin and C-type lectin superfamily. Unlike other members of this family which possess immunoreceptor tyrosine-based inhibitory motifs (ITIM), DAP12 contains an immunoreceptor tyrosine-based activation motif (ITAM) in its



cytoplasmic domain and is a disulfide bonded homodimer. Crosslinking of DAP12-KIR complexes (membran glycoproteins of the killer-cell inhibitor receptor family without an ITIM in their cytoplasmic domain) results in cellular activation.

References:

1. Lanier, L.L. et al. (1998) Immunoreceptor DAP12 bearing a tyrosine-based activation motif is involved in activating NK cells. *Nature* 391:703-707
2. Tomasello E. et al. (1998) Gene structure, expression pattern, and biological activity of mouse killer cell activating receptor-associated protein (KARAP)/DAP-12. *J. Biol. Chem.* 273:34115-34119
3. Lanier L.L. et al. (1998) Association of DAP12 with activating CD94/NKG2C NK cell receptor. *Immunity* 8:693-701