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ARC (Apoptosis Repressor with CARD) control peptide

Alternate names: Nop30

Catalog No.: SP6270CP

Quantity: 50 µg

Background: The Toll-like receptor (TLR) family in mammal comprises a family of transmembrane proteins characterized by multiple copies of leucine rich repeats in the extracellular domain and IL-1 receptor motif in the cytoplasmic domain. Like its counterparts in Drosophila, TLRs signal through adaptor molecules (1). The TLR family is a phylogenetically conserved mediator of innate immunity that is essential for microbial recognition (2). Ten human homologs of TLRs (TLR1-10) have been described (3). TIRAP (TIR domain-containing adaptor protein) is an adaptor protein used by TLR4. Blocking TIRAP inhibits TLR4-mediated signaling events, including DC maturation and cytokine production (4). It has 235 amino acids and is commonly seen as a 32-37 kD protein (4).

Immunogen: Synthetic peptide corresponding to a portion of human TIRAP

Format: **State:** Liquid ascites fluid
Buffer System: 0.05 % BSA and 0.05 % sodium azide

Applications: Western blot analysis at a dilution of 1:500 - 1:1000.
Recommended Positive Control: human spleen.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody is specific for TIRAP.
Species: Human.
Others not tested.

Storage: Store the antibody in aliquots at -20 °C. Can be shipped at 2 - 8 °C.
Avoid repeated freezing and thawing.
Shelf life: One year from despatch.

General References:
1. Muzio M, Natoli G, Saccani S, Levrero M, and Mantovani A. J. Exp. Med. 187: 2097-2101 (1998).
2. Medzhitov R and Janeway CA. Cell 91: 295-298 (1997).
3. Chuang TH and Ulevitch RJ. Biochim. Biophys. Acta 1518 (1-2): 157-161 (2001).
4. Horng, T., Barton, G., Medzhitov, R. TIRAP: and adapter molecule in the Toll signaling pathway. Nature. Sept 2001, vol. 2, No. 9 835-841.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com