

#### DESCRIPTION

|                           |  |
|---------------------------|--|
| <b>Species Reactivity</b> | Human  |
| <b>Specificity</b>        | Detects human IL-32 alpha in direct ELISAs.  |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 373821  |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human IL-32 alpha<br>Met1-Asn131<br>Accession # P24001   |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm  |
| <b>Formulation</b>        | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*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.

|   | <b>Recommended Concentration</b>     | <b>Sample</b>   |
|---|--------------------------------------|---|
| <b>Intracellular Staining by Flow Cytometry</b> | 0.25-1 $\mu$ g/10 <sup>6</sup> cells | Human peripheral blood mononuclear cells (PBMCs) treated with PMA and calcium ionomycin, fixed with Flow Cytometry Fixation Buffer (Catalog # <a href="#">FC004</a> ) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # <a href="#">FC005</a> ) |

#### PREPARATION AND STORAGE

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

#### BACKGROUND

IL-32 $\alpha$  is one of at least nine potential splice variants of the proinflammatory cytokine IL-32 (previously called NK4), which when full-length is 31 kDa in size. The predicted molecular weight of IL-32 $\alpha$  is approximately 15 kDa and it represents amino acids (aa) 1-18, 65-153, and 211-234 of the full-length (234 aa) form. Since the signal sequence of the ORF is aa 1-30, this isoform is like found intracellularly. IL-32 is induced by mitogens in peripheral lymphocytes, by IFN- $\gamma$  in epithelial cells, or by IL-12 with IL-18 in NK cells and in turn induces cytokine expression. No ortholog has been found in mouse.

#### PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc., and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.