

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-32α in flow cytometry.
Source	Monoclonal Rat IgG _{2A} Clone # 373821
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IL-32α Phe3-Lys131 Accession # NP_001012651
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied 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.

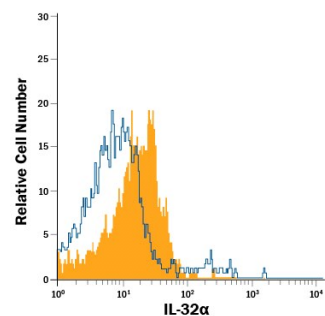
APPLICATIONS

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	10 µL/10 ⁶ cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of IL-32α in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) treated with PMA and calcium ionomycin were stained with Rat Anti-Human IL-32α APC-conjugated Monoclonal Antibody (Catalog # IC30402A, filled histogram) or isotype control antibody (Catalog # IC006A, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for [Staining Intracellular Molecules](#).

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

IL-32α 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-32α 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-γ 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.