Human IL-32α Antibody

Monoclonal Rat IgG_{2A} Clone # 373802

Catalog Number: MAB30401

DESCRIPTION

Species Reactivity	Human
Specificity	Detects the α isoform of IL-32 in direct ELISAs. In direct ELISAs, less than 15% cross-reactivity with recombinant human (rh) IL-32β and rhIL-32γ is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 373802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human IL-32α Phe3-Lys131 Accession # NP_001012651
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

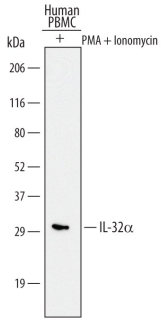
APPLICATIONS

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
Western Blot	2 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

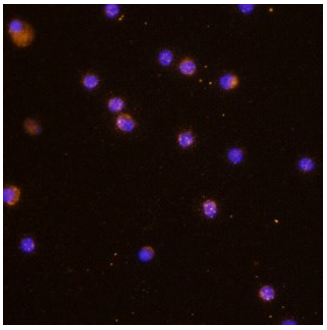
DATA

Western Blot



Detection of Human IL-32α by Western Blot. Western blot shows lysates of human peripheral blood mononuclear cells (PBMC) treated (+) with 200 ng/mL Ionomycin and 10 ng/mL PMA for 72 hours. PVDF Membrane was probed with 2 µg/mL of Human IL-32α Monoclonal Antibody (Catalog # MAB30401) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for IL-32α at approximately 30 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



IL-32α in Human PBMCs. IL-32α was detected in immersion fixed human peripheral blood mononuclear cells (PBMCs) using Human IL-32α Monoclonal Antibody (Catalog # MAB30401) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (yellow; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

IL-32α is the shortest and most abundant of four potential splice variants of the proinflammatory cytokine IL-32 (previously called NK4) with a predicted unmodified size of 15 kDa. Potential modifications include myristoylation and N-glycosylation. Transfected IL-32α was more likely to be cell-associated as compared to IL-32β, suggesting an intracellular function. 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.

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