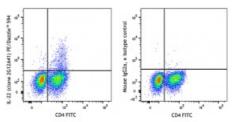
PE/Dazzle[™] 594 anti-human IL-22

Catalog # / Size:	2433575 / 25 tests 2433580 / 100 tests
Clone:	2G12A41
lsotype:	Mouse IgG2a, к
Immunogen:	Full length recombinant protein expressed in <i>E. Coli</i> .
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)
Concentration:	Lot-specific



Human PBMCs were stimulated with PMA and lonomycin in the presence of Brefeldin A for 6 hours. Cells were surface stained with anti-human CD4 FITC. After fixation and permeabilization cells were stained with antihuman IL-22 (clone 2G12A41) PE/Dazzle™ 594 (left) or mouse IgG2a, ĸ PE/Dazzle™ 594 isotype control (right).

Applications:

Applications: Intracellular Staining for Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle $^{\rm m}$ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

IL-22 is a cytokine that is structurally related to IL-10. Originally identified **Description:** as a murine gene induced by IL-9 in T and mast cells, IL-22 was initially designated ILTIF, also known as the IL-10-related T cell-derived inducible factor. IL-22 belongs to a family of cytokines with limited homology specifically to IL-10, IL-19, IL-20, IL-24, IL-26, the IFN-λs, IL-28A, IL-28B, and IL-29. Human IL-22 shares 79% amino acid identity with murine IL-22 and 25% identity with human IL-10. IL-22 biological activity is initiated by binding to a cell surface complex composed of IL-22R1 and IL-10R2 receptor chains. Its activity is further regulated through interactions with the soluble binding protein, IL-22BP, which shares sequence similarity with an extracellular region of IL-22R1 (sIL-22R1). Both chains of the IL-22R complex belong to the class II cytokine receptor family. Two types of IL-22 binding receptors have been discovered: a membrane-bound receptor and a soluble receptor that are encoded by different genes. IL-22 is produced by Th17 cells and Th22 cells. The use of Iscove's Modified Dulbecco's Medium (IMDM) will result in better in vitro Th17 polarization. It plays a critical role in mucosal immunity in addition to the deregulated inflammation observed in autoimmune diseases.

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