PE Rabbit anti-Human IDO1 mAb

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Catalog No.: A26647

Basic Information

Observed MW

Calculated MW

45kDa

Category

Primary antibody

Applications

FC (intra)

Cross-Reactivity

Human

CloneNo number

ARC67328-PE

Conjugate

PE. Ex:565nm. Em:574nm.

Background

This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan.

Recommended Dilutions

FC (intra)

5 μl per 10^6 cells in 100 μl volume

Immunogen Information

Gene ID 3620 **Swiss Prot**

P14902

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-403 of human IDO1 (NP_002155.1).

Synonyms

IDO; INDO; IDO-1

Contact

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Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data









1X10^6 A549 cells (negative control,left) and A549 (treated with hIFN-γ,right) cells were intracellularly-stained with PE Rabbit anti-Human IDO1 mAb (A26647,5 µl/Test,orange line) or PE Rabbit IgG isotype control (A24172,5 µl/Test,blue line). Nonfluorescently stained cells were used as blank control (red line).

Flow cytometry: $1X10^6$ A549 (treated with hIFN- γ ,right) cells were intracellularly-stained with PE Rabbit IgG isotype control (A24172,5 μ I/Test,left) or PE Rabbit anti-Human IDO1 mAb (A26647,5 μ I/Test,right).