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IDO1

Reactivity: Human

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Calculated MW:45kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human IDO1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

CD107B; IDO; INDO;

Catalog #:A1614

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:3620

Isotype: IgG

Swiss Prot:P14902

Purity: Affinity purification

For research use only.

Background:

INDO/IDO1/indoleamine 2,3-dioxygenase (IDO) is an IFN--inducible enzyme that catalyzes the rate-limiting step of tryptophan degradation (1). IDO is upregulated in many tumors and in dendritic cells in tumor-draining lymph nodes. Elevated tryptophan catabolism in these cells leads to tryptophan starvation of T cells, limiting T cell proliferation and activation (2). Therefore, IDO is considered an immunosuppresive molecule, and research studies have shown that upregulation of IDO is a mechanism of cancer immune evasion (3). The gastrointestinal stromal tumor drug, imatinib, was found to act, in part, by reducing IDO expression, resulting in increased CD8+ T cell activation and induction of apoptosis in regulatory T cells (4). In addition to its enzymatic activity, IDO was recently shown to have signaling capability through an immunoreceptor tyrosine-based inhibitory motif (ITIM) that is phosphorylated by Fyn in response to TGF-. This leads to recruitment of SHP-1 and activatation of the noncanonical NF-B pathway (5).

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