

## INDO antibody

Catalog No: #38268

Package Size: #38268-1 50ul #38268-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

Product Name	INDO antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total INDO protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human INDO.
Target Name	INDO
Other Names	CD107B; IDO; INDO;
Accession No.	Swiss-Prot#: P14902NCBI Gene ID: 3620
Uniprot	P14902
GeneID	3620;
SDS-PAGE MW	45kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

WB 1:500 - 1:2000

IHC 1:50 - 1:200

IF 1:50 - 1:200

## Background

INDO/IDO1/indoleamine 2,3-dioxygenase (IDO) is an IFN- $\gamma$ -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 immunosuppressive 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<sup>+</sup> 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- $\beta$ . This leads to recruitment of SHP-1 and activation of the noncanonical NF- $\kappa$ B pathway (5).

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Note: This product is for in vitro research use only