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INDO Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2728c

Product Information

Application	WB, IHC-P, E
Primary Accession	P14902
Other Accession	NP_002155.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15060
Calculated MW	45326
Antigen Region	79-105

Additional Information

Gene ID	3620
Other Names	Indoleamine 2, 3-dioxygenase 1, IDO-1, Indoleamine-pyrrole 2, 3-dioxygenase, IDO1, IDO, INDO
Target/Specificity	This INDO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 79-105 amino acids from the Central region of human INDO.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	INDO Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IDO1 (HGNC:6059)
Synonyms	IDO, INDO
Function	Catalyzes the first and rate limiting step of the catabolism of the essential

amino acid tryptophan along the kynurenine pathway (PubMed:17671174). Involved in the peripheral immune tolerance, contributing to maintain homeostasis by preventing autoimmunity or immunopathology that would result from uncontrolled and overreacting immune responses (PubMed:25691885). Tryptophan shortage inhibits T lymphocytes division and accumulation of tryptophan catabolites induces T-cell apoptosis and differentiation of regulatory T-cells (PubMed:25691885). Acts as a suppressor of anti-tumor immunity (PubMed:14502282, PubMed:23103127, PubMed:25157255, PubMed:25691885). Limits the growth of intracellular pathogens by depriving tryptophan (PubMed:25691885). Protects the fetus from maternal immune rejection (PubMed:25691885).

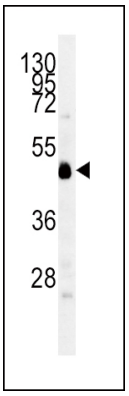
Cellular Location

Cytoplasm, cytosol {ECO:0000250|UniProtKB:P28776, ECO:0000303|PubMed:25691885}

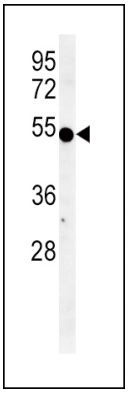
Tissue Location

Expressed in mature dendritic cells located in lymphoid organs (including lymph nodes, spleen, tonsils, Peyers's patches, the gut lamina propria, and the thymic medulla), in some epithelial cells of the female genital tract, as well as in endothelial cells of term placenta and in lung parenchyma (PubMed:25691885). Weakly or not expressed in most normal tissues, but mostly inducible in most tissues (PubMed:25691885). Expressed in more than 50% of tumors, either by tumoral, stromal, or endothelial cells (expression in tumor is associated with a worse clinical outcome) (PubMed:18418598). Not overexpressed in tumor-draining lymph nodes (PubMed:25691885, PubMed:26155395).

Images

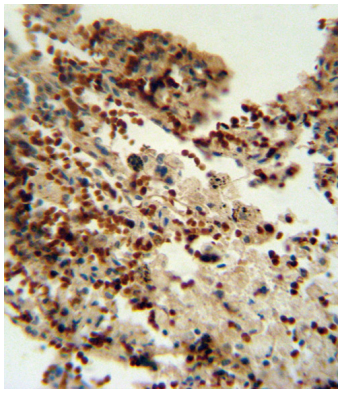


INDO Antibody (Center) (Cat. #AP2728c) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the INDO antibody detected the INDO protein (arrow).



INDO Antibody (Center) (Cat. #AP2728c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the INDO antibody detected the INDO protein (arrow).

INDO antibody (Center) (Cat. #AP2728c) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and



DAB staining. This data demonstrates the use of the INDO antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.