10320 Camino Santa Fe, Suite G
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INDO Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2728c

Specification

INDO Antibody (Center) - Product Information

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

INDO Antibody (Center) - 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
IHC-P~~1:10~50
WB~~1:1000
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.

INDO Antibody (Center) - 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).

INDO Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

INDO Antibody (Center) - Images

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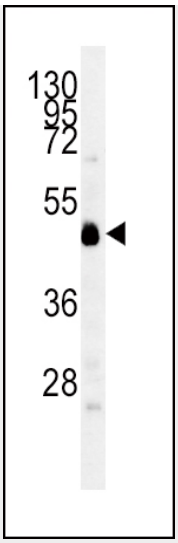
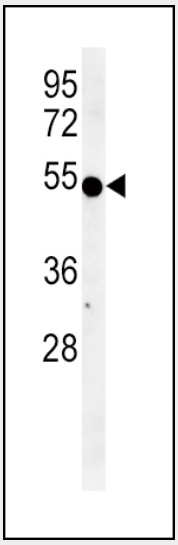
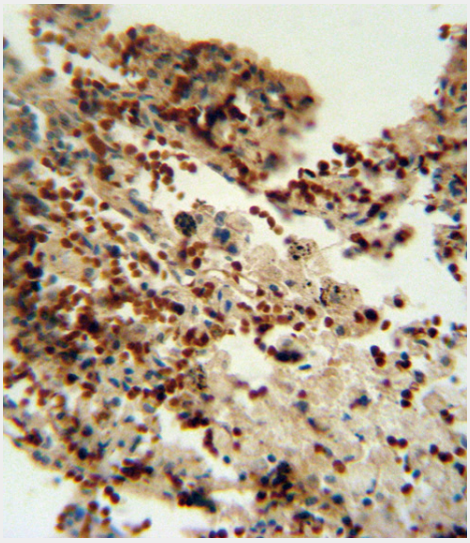


INDO Antibody (Center) (Cat. #AP2728c) western blot analysis in mouse cerebellum tissue lysates (35ug/lane).This demonstrates the INDO antibody detected the INDO protein (arrow).



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).



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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.