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IDO Polyclonal Antibody

Catalog Number **PA5-29819**

Product data sheet

Details	
Size	100 µL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 191 of Human IDO1
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Human

Tested Applications	Dilution *
Western Blot (WB)	1:500-1:3,000
Immunocytochemistry (ICC/IF)	1:100-1:1,000

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

PA5-29819 targets IDO1 in IF and WB applications and shows reactivity with Human samples. The PA5-29819 immunogen is recombinant fragment corresponding to a region within amino acids 1 and 191 of Human IDO1.

Background/Target Information

IDO1 is an intracellular heme-containing enzyme that catalyzes the oxidative cleavage of the indole ring of several important regulatory molecules like tryptophan, serotonin, and melatonin. By doing this, IDO1 initiates the production of biologically active metabolites, commonly referred to as kynurenines. IDO1 is widely expressed in a variety of human tissues as well as in macrophages and dendritic cells (DCs). In inflammation, interferons (IFNs) act on specific receptors to trigger IDO1 induction. The production of IFN-gamma and induction of IDO1 represent important antimicrobial mechanisms. Degradation and depletion of tryptophan by IDO1 inhibits the growth of viruses, bacteria and parasites. Furthermore, IDO1 plays a complex and crucial role in immunoregulation during infection, pregnancy, autoimmunity, transplantation, and neoplasia.

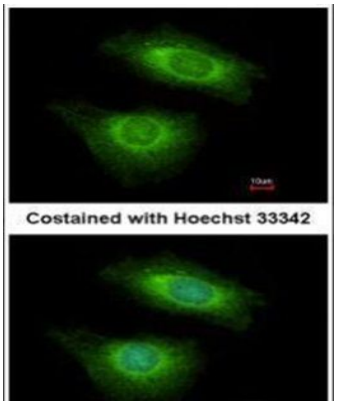
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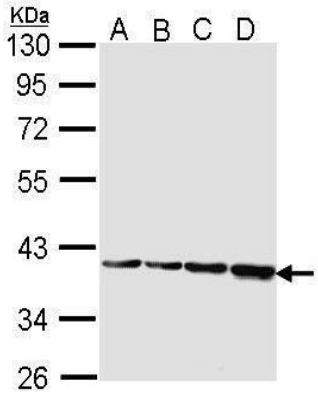
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Product Images For IDO Polyclonal Antibody



IDO Antibody (PA5-29819) in ICC/IF

Immunofluorescent analysis of IDO1 in methanol-fixed HeLa cells using an IDO1 polyclonal antibody (Product # PA5-29819) at a 1:200 dilution.



IDO Antibody (PA5-29819) in WB

Western blot analysis of IDO1 using 30µg of A) H1299 (B) HeLa (C) MOLT4 and D) Raji lysate. Samples were loaded onto a 10% SDS-PAGE gel and probed with an IDO1 polyclonal antibody (Product # PA5-29819) at a dilution of 1: 1000.

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