A1614PM
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# IDO1 Rabbit PolymAb®

**Catalog No.: A1614PM**

## Basic Information

**Observed MW**
45kDa

**Calculated MW**
45kDa

**Category**
Monoclonal Antibody

**Applications**
WB,IF/ICC,ELISA

**Cross-Reactivity**
Human

## Background

This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:3000 - 1:18000 |
| **IF/ICC** | 1:200 - 1:800 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. |

## Immunogen Information

**Gene ID**
3620

**Swiss Prot**
P14902

**Immunogen**
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

**Synonyms**
IDO; INDO; IDO-1

## Contact

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## Product Information

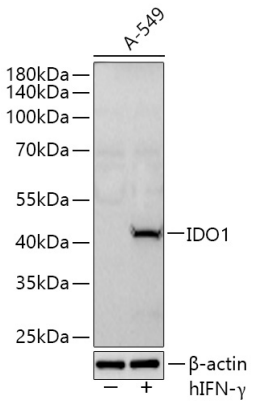
**Source**
Rabbit

**Isotype**
IgG

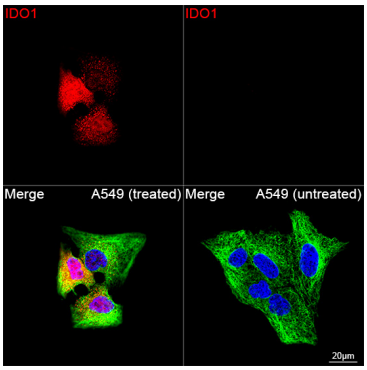
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data




Western blot analysis of lysates from A-549 cells using IDO1 Rabbit PolymAb® (A1614PM) at 1:5000 dilution incubated overnight at 4℃. A549 cells were treated by hIFN-γ (100ng/mL) at 37℃ for 48 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 μg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.




Confocal imaging of A549 cells (treated with hIFN-γ) and A549 cells (untreated) cells using IDO1 Rabbit PolymAb® (A1614PM, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.