# ARG23317
# anti-IDO1 / INDO antibody [10.1]

Package: 50 µg
Store at: -20°C

## Summary

| | |
|---|---|
| Product Description | Mouse Monoclonal antibody [10.1] recognizes IDO1 / INDO |
| Tested Reactivity | Hu, Ms |
| Tested Application | IHC-Fr, WB |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | 10.1 |
| Isotype | IgG3 |
| Target Name | IDO1 / INDO |
| Species | Human |
| Immunogen | GST-fused synthetic peptide around aa. 78-184 of Human IDO1. |
| Conjugation | Un-conjugated |
| Alternate Names | IDO-1; Indoleamine 2,3-dioxygenase 1; IDO; Indoleamine-pyrrole 2,3-dioxygenase; INDO; EC 1.13.11.52 |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| IHC-Fr | Assay-dependent |
| WB | Assay-dependent |

Application Note

WB: This product recognizes a 45 kDa band in IFN-gamma treated human cell lines. This antibody recognizes a slightly lower molecular weight band in Mouse IDO compared to its human counterpart.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

## Properties

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|---|---|
| Form | Liquid |
| Purification | Purified |
| Buffer | PBS |
| Preservative | 0.1% Sodium azide |
| Concentration | 1 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

| | |
|---|---|
| Gene Symbol | IDO1 |
| Gene Full Name | indoleamine 2,3-dioxygenase 1 |
| 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.[provided by RefSeq, Feb 2011] |
| Function | Catalyzes the cleavage of the pyrrol ring of tryptophan and incorporates both atoms of a molecule of oxygen. [UniProt] |
| Calculated Mw | 45 kDa |