SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-IDO1 antibody

**Catalog Number: SL23751R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

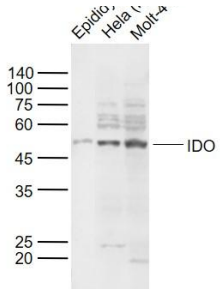
| | |
|---|---|
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | IDO1 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from mouse IDO1: 251-350/403 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | WB=1:500-2000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Human,Mouse,Rat |
| **Predicted MW.:** | 45kDa |
| **Subcellular Location:** | cytoplasmic |
| **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.<br>**Function:** Catalyzes the cleavage of the pyrrol ring of tryptophan and incorporates both atoms of a molecule of oxygen.<br>**Similarity:** Belongs to the indoleamine 2,3-dioxygenase family.<br>**Database links:**<br>**Entrez Gene:** 3620 Human |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

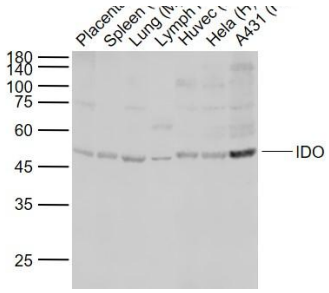
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| | |
|---|---|
| | **Entrez Gene:** 15930 Mouse<br>**Entrez Gene:** 66029 Rat<br>Omim: 147435 Human<br>**SwissProt:** P14902 Human<br>**SwissProt:** P28776 Mouse<br>**SwissProt:** Q9ERD9 Rat<br>**Unigene:** 840 Human<br>**Unigene:** 392 Mouse<br>**Unigene:** 64513 Rat |

## [ VALIDATION IMAGES ]




Sample:
Lane 1: Mouse Epididymis tissue lysates
Lane 2: Human Hela cell lysates
Lane 3: Human Molt-4 cell lysates
Primary: Anti-IDO (SL23751R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 45 kD
Observed band size: 48 kD




Sample:
Lane 1: Mouse Placenta tissue lysates
Lane 2: Mouse Spleen tissue lysates
Lane 3: Mouse Lung tissue lysates
Lane 4: Rat Lymph node tissue lysates
Lane 5: Human Huvec cell lysates
Lane 6: Human Hela cell lysates
Lane 7: Human A431 cell lysates
Primary: Anti-IDO (SL23751R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 45 kD
Observed band size: 47 kD

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