SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-IDO1 antibody

Catalog Number: SL15493R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	IDO1
Immunogen:	KLH conjugated synthetic peptide derived from human IDO: 101-200/403
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） not yet tested in other applications. 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.[provided by RefSeq, Feb 2011] **Function:** Catalyzes the cleavage of the pyrrol ring of tryptophan and incorporates both atoms of a molecule of oxygen. **Similarity:** Belongs to the indoleamine 2,3-dioxygenase family. **Database links:** **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 **Entrez Gene:** 66029 Rat Omim: 147435 Human **SwissProt:** P14902 Human **SwissProt:** P28776 Mouse **SwissProt:** Q9ERD9 Rat **Unigene:** 840 Human **Unigene:** 392 Mouse **Unigene:** 64513 Rat

[VALIDATION IMAGES]

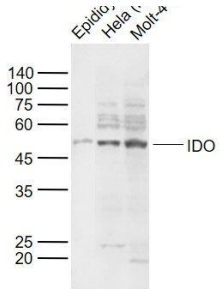


Figure 1. Sample: Lane 1: Mouse Epididymis tissue lysates Lane 2: Human Hela cell lysates Lane 3: Human Molt-4 cell lysates Primary: Anti-IDO (SL15493R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 48 kD

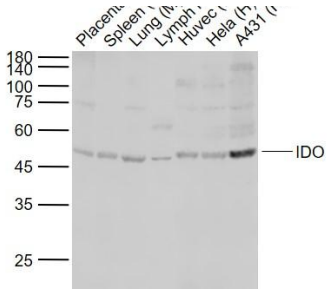


Figure 2. Sample: Lane 1: Mouse Placenta tissue lysates Lane 2: Mouse Spleen tissue lysates Lane 3: Mouse Lung tissue lysates Lane 4: Rat Lymph node tissue lysates Lane 5: Human Huvec cell lysates Lane 6: Human Hela cell lysates Lane 7: Human A431 cell lysates Primary: Anti-IDO (SL15493R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 48 kD

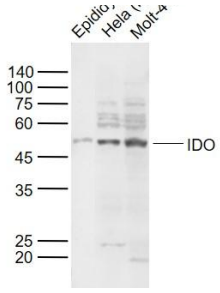


Figure 3. Sample: Lane 1: Mouse Epididymis tissue lysates Lane 2: Human Hela cell lysates Lane 3: Human Molt-4 cell lysates Primary: Anti-IDO (SL15493R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 48 kD

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