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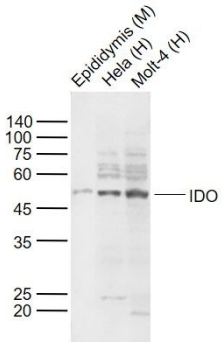
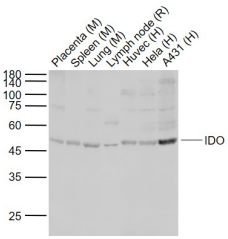
IDO1 Rabbit pAb

Catalog Number:	bs-15493R
Target Protein:	IDO1
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000)
Reactivity:	Human, Mouse, Rat
Predicted MW:	45 kDa
Detected MW:	45 kDa
Subcellular Locations:	Cytoplasm
Entrez Gene:	3620
Swiss Prot:	P14902
Source:	KLH conjugated synthetic peptide derived from human IDO: 101-200/403.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
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]

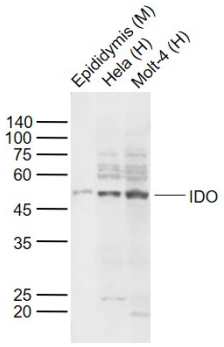
VALIDATION IMAGES



Sample: Lane 1: Mouse Epididymis tissue lysates Lane 2: Human Hela cell lysates Lane 3: Human Molt-4 cell lysates Primary: Anti-IDO (bs-15493R) 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 (bs-15493R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 47 kD



Sample: Lane 1: Mouse Epididymis tissue lysates Lane 2: Human Hela cell lysates Lane 3: Human Molt-4 cell lysates Primary: Anti-IDO (bs-15493R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 48 kD

PRODUCT SPECIFIC PUBLICATIONS

[IF=12.441] Peng et al. Photosensitizer Micelles Together with IDO Inhibitor Enhance Cancer Photothermal Therapy and Immunotherapy. (2018) Adv.Sci.(Weinh). 5:1700891 IHC,WB ; mouse . 29876215

[IF=6.8] Ye Jiazhou. et al. Single cell-spatial transcriptomics and bulk multi-omics analysis of heterogeneity and ecosystems in hepatocellular carcinoma. NPJ PRECIS ONCOL. 2024 Nov;8(1):1-18 IHC ; Human . 39548284

[IF=7.376] Yunjia Li. et al. Indoleamine 2, 3-dioxygenase 1 aggravates acetaminophen-induced acute liver failure by triggering excess nitroxidative stress and iron accumulation. Free Radical Bio Med. 2021 Aug;172:578 IHC ; Mouse . 34242792

[IF=5.6] Shuoyi Ma. et al. Indoleamine 2, 3-dioxygenase 1 activation in macrophage exacerbates hepatic ischemia-reperfusion injury by triggering hepatocyte ferroptosis. INT IMMUNOPHARMACOL. 2024 Mar;130:111692 IHC ; Mouse . 38382261

[IF=6.1] Rui Zhang. et al.Knockout IL4I1 affects macrophages to improve poor efficacy of CD19 CAR-T combined with PD-1 inhibitor in relapsed/refractory diffuse large B-cell lymphoma.JOURNAL OF TRANSLATIONAL MEDICINE.2025 Jan 22;23(1):105. Western blot ; Mouse . 39844281