

bs-15493R**[Primary Antibody]****BioSS**
ANTIBODIES

www.bioss.com.cn

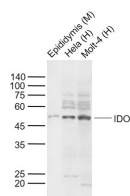
sales@bioss.com.cn

techsupport@bioss.com.cn

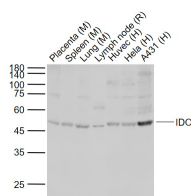
400-901-9800

IDO1 Rabbit pAb**DATASHEET**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		Reactivity: Human, Mouse, Rat
GeneID: 3620	SWISS: P14902	
Target: IDO1		
Immunogen: KLH conjugated synthetic peptide derived from human IDO: 101-200/403.		Predicted MW.: 45 kDa
Purification: affinity purified by Protein A		Subcellular Location: Cytoplasm
Concentration: 1mg/ml		
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

SELECTED CITATIONS

- **[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

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

- 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