

bs-4947R**[Primary Antibody]****Bioss**
ANTIBODIES

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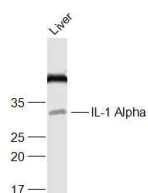
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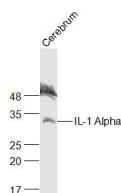
400-901-9800

IL-1 Alpha Rabbit pAb**— DATASHEET —**

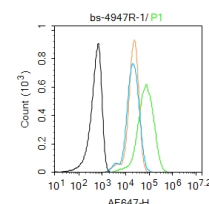
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) Flow-Cyt (1 μ g/Test)
Clonality: Polyclonal		Reactivity: Human, Mouse (predicted: Rat)
GeneID: 24493	SWISS: P16598	Predicted MW.: 17, 31 kDa
Target: IL-1 Alpha		Subcellular Location: Secreted
Immunogen: KLH conjugated synthetic peptide derived from rat IL-1 Alpha: 155-230/270.		
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°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: Interleukins (ILs) are a large group of cytokines that are produced mainly by leukocytes, although some are produced by certain phagocytes and auxiliary cells. Each IL acts on a specific, limited group of cells through a receptor specific for that IL. Interleukin 1 (IL1), originally known as lymphocyte activating factor (LAF), activates T cells and lymphocytes, which then proliferate and secrete interleukin 2. IL1 is primarily released from stimulated macrophages and monocytes, but also is released from several other cell types and is thought to play a key role in inflammatory and immune responses. The two closely related agents, interleukin 1 alpha (IL1 alpha) and interleukin 1 beta (IL1 beta) bind to the same cell surface receptor, elicit nearly identical biological responses and share 25% homology in their amino acid sequence.		

— VALIDATION IMAGES —

Sample: Liver(Mouse) Lysate at 40 μ g Primary:
Anti-IL-1 Alpha (bs-4947R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at
1/20000 dilution Predicted band size: 17/31 kD
Observed band size: 31 kD



Sample: Cerebrum (Mouse) Lysate at 40 μ g
Primary: Anti-IL-1 Alpha (bs-4947R) at 1/1000
dilution Secondary: IRDye800CW Goat Anti-
Rabbit IgG at 1/20000 dilution Predicted band
size: 17/31 kD Observed band size: 31 kD



Blank control: Raw264.7. Primary Antibody
(green line): Rabbit Anti-IL-1 Alpha antibody
(bs-4947R) Dilution: 1 μ g /10⁶ cells; Isotype
Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-AF647
Dilution: 1 μ g /test. Protocol The cells were fixed
with 4% PFA (10min at room temperature)and
then permeabilized with 0.1% PBST for 20 min at
room temperature. The cells were then
incubated in 5%BSA to block non-specific
protein-protein interactions for 30 min at room
temperature .Cells stained with Primary
Antibody for 30 min at room temperature. The
secondary antibody used for 40 min at room
temperature. Acquisition of 20,000 events was
performed.

— SELECTED CITATIONS —

- **[IF=18.027]** Rong Rong. et al. Targeting Cell Membranes, Depleting ROS by Dithiane and Thioketal-Containing

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

Polymers with Pendant Cholesterols Delivering Necrostatin-1 for Glaucoma Treatment. ACS NANO. 2022;XXXX(XXX):XXX-xxx FCM ;Rat. 36487191

- **[IF=6.709]** Guangkuo Dong. et al. Interleukin (IL)-1 receptor signaling is required for complete taste bud regeneration and the recovery of neural taste responses following axotomy. J NEUROSCI. 2023 Apr;; IF ;Mouse. 37015809
- **[IF=5]** Ruyi Zhu. et al. Wogonoside alleviates microglia-mediated neuroinflammation via TLR4/MyD88/NF-κB signaling axis after spinal cord injury. EUR J PHARMACOL. 2024 Jun;973:176566 WB ;Mouse. 38636801
- **[IF=4.6]** Lu, Yufang. et al.Baicalin ameliorates neuroinflammation by targeting TLR4/MD2 complex on microglia via PI3K/AKT/NF-kappaB signaling pathway.NEUROPHARMACOLOGY.2025 Apr 1:267:110296. western blot ;Mouse. 39798687
- **[IF=3.905]** Fen Xu. et al. Lipoxin A4 and its analog attenuate high fat diet-induced atherosclerosis via Keap1/Nrf2 pathway. Exp Cell Res. 2022 Mar;412:113025 IF ;Rat. 35026282