
IL-1 Alpha Rabbit pAb

Catalog Number: bs-4947R

Target Protein: IL-1 Alpha

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), Flow-Cyt (1ug/Test)

Reactivity: Human, Mouse (predicted:Rat)

Predicted MW: 17, 31 kDa

Entrez Gene: 24493

Swiss Prot: P16598

Source: KLH conjugated synthetic peptide derived from rat IL-1 Alpha: 155-230/270.

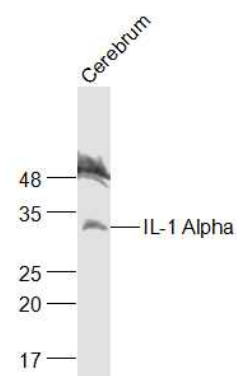
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

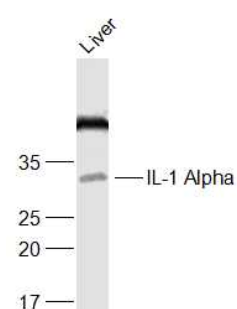
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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.

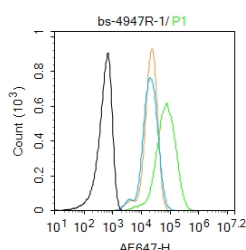
VALIDATION IMAGES



Sample: Cerebrum (Mouse) Lysate at 40 ug 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: Liver (Mouse) Lysate at 40 ug 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: $1\mu\text{g}/10^6$ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: $1\mu\text{g}/\text{test}$. 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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=18.027] Rong Rong. et al. Targeting Cell Membranes, Depleting ROS by Dithiane and Thioketal-Containing 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- κ B signaling axis after spinal cord injury. EUR J PHARMACOL. 2024 Jun;973:176566 WB ; Mouse . 38636801

[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