

Anti-IL-1 Alpha Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

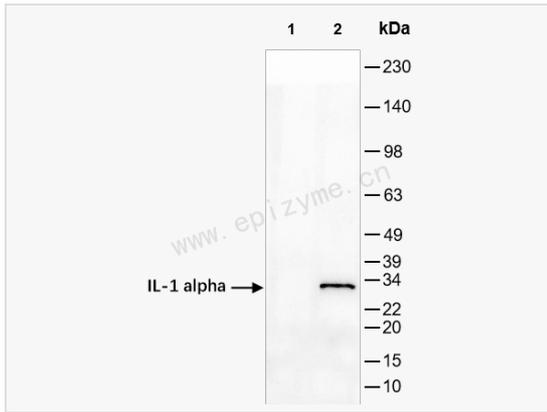
Catalog # R015789

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	26G56S27
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human IL-1 alpha
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-IL-1 Alpha Rabbit mAb [26G56S27] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	IL1F1; IL1A; Interleukin-1 alpha; IL-1 alpha; Hematopoietin-1.
Calculated MW	Calculated MW: 31 kDa; Observed MW: 31 kDa
Uniprot ID	P01583
Gene ID	3552
Background	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008]
Cellular Location	Nucleus.Cytoplasm.Secreted.The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins. The secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059). Recruited to DNA damage sites and secreted after genotoxic stress.



Western Blot - Anti-IL-1 Alpha Rabbit mAb [26G56S27]

All lanes: R015789 at 1:1,000 dilution

Lane 1: Untreated Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 2: Raw264.7 cells treated with 1mg/L LPS for 24 hours

Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 31 kDa

Observed band size: 31 kDa

Developed using the ECL technique (Cat. No. SQ201).