

Mouse IL1A/IL-1A/IL-1F1 ELISA Kit | IL1A/IL-1A/IL-1F1 elisa kit

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CATALOG #
AAA258474

REACTIVITY
Mouse

PRODUCT SYNONYMS

IL1A/IL-1A/IL-1F1; Mouse IL1A/IL-1A/IL-1F1 ELISA Kit; IL-1 alpha/IL1A ELISA Kit; Mouse; interleukin 1; alpha; IL1A/IL-1A/IL-1F1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	For the quantitative determination of Mouse IL1A/IL-1A/IL-1F1 concentration in serum and cell culture supernates.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Cell supernatant
Detection Range	6.56-420pg/mL
Sensitivity	3.11pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant mouse IL1A control were assayed for interference. No significant interference was observed. Interference was observed with recombinant mouse IL1Ra at concentrations >= 0.3125ng/mL.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

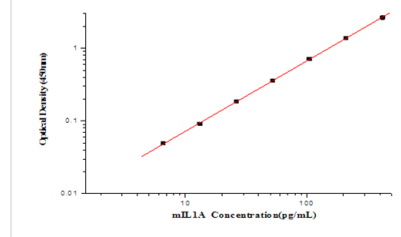
IMAGES

Recombinant human			
IL1a	IL1B	IL1R1	IL1R2
Recombinant mouse			
IFN- γ	IL1 β	IL1ra	IL1RII
IL2	IL4	IL5	IL6
IL7	IL10R	IL13	IL17
IL18	LIF	M-CSF	OSM
TNF- α	VEGF	IL12B	CCL3
IL18R1	IL17a	XCL1	IL12A-IL12B
Recombinant rat			
IL1B			

Application Data

This assay recognizes both recombinant and natural Mouse IL1A. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
6.56	0.049
13.13	0.092
26.25	0.184
52.5	0.356
105	0.713
210	1.388
420	2.640



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for IL1A/IL-1A/IL-1F1 elisa kit	This IL-1 alpha/IL1A ELISA Kit, Mouse is an enzyme-linked immunosorbent assay for the quantitative measurement of Mouse IL-1 alpha/IL1A protein in Serum, Cell supernatant. It contains recombinant Mouse IL-1 alpha/IL1A, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: IL-1 alpha is a member of the interleukin 1 cytokine family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation, and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. Cytokines can be classified into two groups: pro- and anti-inflammatory. Pro-inflammatory cytokines, including IFNgamma, IL-1, IL-6, and TNF-alpha, are predominantly derived from the innate immune cells and Th1 cells. Anti-inflammatory cytokines, including IL-10, IL-4, IL-13, and IL-5, are synthesized from Th2 immune cells. IL-1 alpha is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. It is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. IL-1 alpha stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity.
References	Nicklin MJ, et al. (1994) A physical map of the region encompassing the human interleukin-1 alpha, interleukin-1 beta, and interleukin-1 receptor antagonist genes. Genomics. 19(2):382-4. March CJ, et al. (1985) Cloning, sequence and expression of two distinct human interleukin-1 complementary DNAs. Nature. 315(6021):641-7. Bankers-Fulbright JL, et al. (1996) Interleukin-1 signal transduction. Life Sci. 59(2):61-83. Dinarelli CA, et al. (1997) Induction of interleukin-1 and interleukin-1 receptor antagonist. Semin Oncol. 24 (3 Suppl 9):S9-81-S9-93.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.