

## ARG80232 Rat IL4 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG80232-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80232-002	Standard (Lyophilized)	3 X 4 ng/vial	4°C
ARG80232-003	Standard diluent buffer	20 ml	4°C
ARG80232-004	Antibody conjugate concentrate	400 µl	4°C
ARG80232-005	Antibody diluent buffer	16 ml	4°C
ARG80232-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80232-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80232-008	20X Wash buffer	50 ml	4°C
ARG80232-009	TMB substrate	12ml	4°C (Protect from light)
ARG80232-010	STOP solution	12ml	4°C
ARG80232-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG80232 Rat IL4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat IL4 in serum, plasma and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human IL-1 sRI, IL-4, IL-7 R alpha, GDNF mouse IL-4
Target Name	IL4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	31.25 - 2000 pg/ml
Sample Volume	100 µl

Precision	CV: less than10%
Alternate Names	BSF-1; IL-4; B-cell stimulatory factor 1; BCGF1; Lymphocyte stimulatory factor 1; BCGF-1; Interleukin-4; Pitrakinra; Binetrakin; BSF1

## Application Instructions

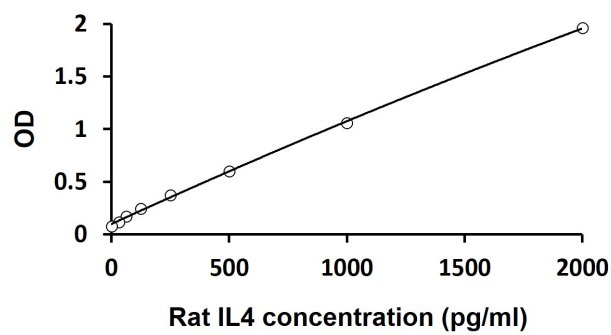
Assay Time	4 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 287287 Rat</a> <a href="#">Swiss-port # P20096 Rat</a>
Gene Symbol	IL4
Gene Full Name	interleukin 4
Background	This protein is a pleiotropic cytokine produced by activated T cells, mast cells and basophils. It is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. IL4 elicits many different biological responses, but has two dominant functions. The first is regulating differentiation of naive CD4+ T cell to the Th2 type. Th2 cells produce IL4, IL5, IL10 and IL13, which tend to favor a humoral immune response while suppressing a cell mediated immune response controlled by Th1 cells. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. The second is regulating IgE and IgG1 production by B cells. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
Highlight	Related products: <a href="#">IL4 antibodies</a> ; <a href="#">IL4 ELISA Kits</a> ; <a href="#">IL4 recombinant proteins</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>
Research Area	Cancer kit; Immune System kit



ARG80232 Rat IL4 ELISA Kit standard curve image

ARG80232 Rat IL4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.