

Rat IL-18 Antibody Pair Set

Catalog No.	E-KAB-0103	Applications	ELISA
Synonyms	IL18, IGIF, IL-1g, IL-1F4, Interferon-gamma-inducing factor		

Kit components & Storage

Title	Specifications	Storage
Rat IL-18 Capture Antibody	1 vial, 100 µg	Store at -20℃ for one year. Avoid freeze / thaw cycles.
Rat IL-18 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20℃ for one year. Avoid freeze / thaw cycles.

Note: Centrifuge before opening to ensure complete recovery of vial contents.

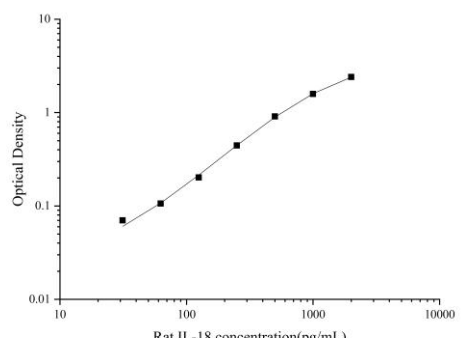
Product Information

Items		Characteristic (E-KAB-0103)	
		Rat IL-18 Capture Antibody	Rat IL-18 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Rat IL-18 protein	Recombinant Rat IL-18 protein
	Swissprot	P97636	
Product details	Reactivity	Rat	Rat
	Host	Goat	Goat
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Antigen Affinity	Antigen Affinity
	Specificity	Detects Rat IL-18 in ELISAs.	

For Research Use Only

Applications

Rat IL-18 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4μg/mL	Rat IL-18 Capture Antibody	 <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Rat IL-18 concentration (pg/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>10</td><td>0.05</td></tr><tr><td>100</td><td>0.2</td></tr><tr><td>1000</td><td>1.0</td></tr><tr><td>10000</td><td>5.0</td></tr></tbody></table>	Rat IL-18 concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	1.0	10000	5.0
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10	0.05												
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ELISA Detection	1:1000-1:10000	Rat IL-18 Detection Antibody (Biotin)											

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

Background

Pro-inflammatory cytokine primarily involved in epithelial barrier repair, polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses. Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells. Involved in transduction of inflammation downstream of pyroptosis: its mature form is specifically released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore.

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