

## Mouse IL-6R Antibody Pair Set

<b>Catalog No.</b>	E-KAB-0345	<b>Applications</b>	ELISA
<b>Synonyms</b>	IL6R, CD126, IL-6R-1, IL-6R-Alpha, IL6Q, IL6RA, IL6RQ, gp80		

### Kit components & Storage

Title	Specifications	Storage
Mouse IL-6R Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Mouse IL-6R Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

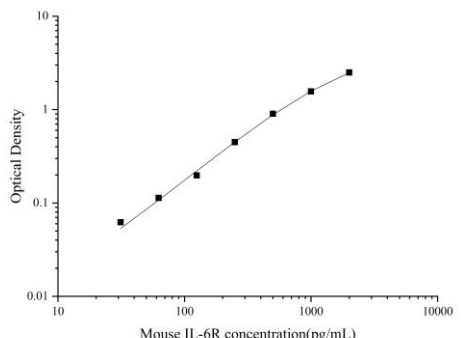
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

Items		Characteristic (E-KAB-0345)	
		Mouse IL-6R Capture Antibody	Mouse IL-6R Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse IL-6R protein	Recombinant Mouse IL-6R protein
	Swissprot	P22272	
Product details	Reactivity	Mouse	Mouse
	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 Mouse IL-6R in ELISAs.	

## Applications

### Mouse IL-6R Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images
ELISA Capture	0.5-4µg/mL	Mouse IL-6R Capture Antibody	 <p>The graph is a log-log plot. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The x-axis is labeled 'Mouse IL-6R concentration(pg/mL)' and ranges from 10 to 10000. There are six data points plotted as black squares, connected by a solid line. The points show a clear upward trend, indicating that as the concentration of Mouse IL-6R increases, the optical density also increases proportionally on the log scale.</p>
ELISA Detection	1:1000-1:10000	Mouse IL-6R Detection Antibody (Biotin)	

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

## Background

Part of the receptor for interleukin 6. Binds to IL6 with low affinity, but does not transduce a signal. Signal activation necessitates an association with IL6ST. Activation leads to the regulation of the immune response, acute-phase reactions and hematopoiesis. The interaction with membrane-bound IL6R and IL6ST stimulates 'classic signaling', the restricted expression of the IL6R limits classic IL6 signaling to only a few tissues such as the liver and some cells of the immune system. Whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans-signaling'. Alternatively, 'cluster signaling' occurs when membrane-bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells.