

Mouse VEGF-A Antibody Pair Set

Catalog No.	E-KAB-0095	Applications	ELISA
Synonyms	VEGF-A, VEGFA, MVCD1, VPF		

Kit components & Storage

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

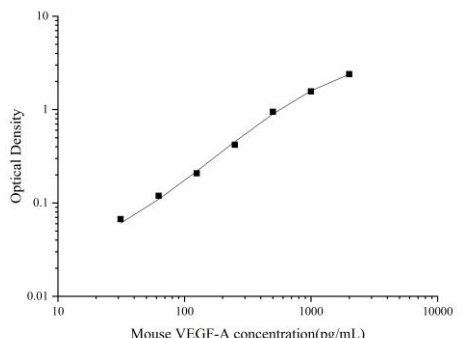
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0095)	
		Mouse VEGF-A Capture Antibody	Mouse VEGF-A Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Mouse VEGF-A protein	Recombinant Mouse VEGF-A protein
	Swissprot	Q00731	
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 VEGF-A in ELISAs.	

Applications

Mouse VEGF-A Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Mouse VEGF-A Capture Antibody	 <p>The graph displays a standard curve for the Mouse VEGF-A Sandwich ELISA Assay. The y-axis represents Optical Density, ranging from 0.01 to 10 on a logarithmic scale. The x-axis represents Mouse VEGF-A concentration in pg/mL, also on a logarithmic scale, ranging from 10 to 10000. The data points form a straight line, indicating a linear relationship between the concentration of VEGF-A and the optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse VEGF-A 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>0.8</td> </tr> <tr> <td>10000</td> <td>3.0</td> </tr> </tbody> </table>	Mouse VEGF-A concentration (pg/mL)	Optical Density	10	0.05	100	0.2	1000	0.8	10000	3.0
Mouse VEGF-A concentration (pg/mL)	Optical Density												
10	0.05												
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ELISA Detection	1:1000-1:10000	Mouse VEGF-A Detection Antibody (Biotin)											

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

Background

Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF) and VEGF-A, is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and often exists as a disulfide-linked homodimer. VEGF-A protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, inhibiting apoptosis and tumor growth. VEGF-A protein is also a vasodilator that increases microvascular permeability, thus it was originally referred to as vascular permeability factor.