

Rat VEGF ELISA Kit | VEGF elisa kit

VEGF Rat ELISA Kit

CATALOG # AAA58964	REACTIVITY Rat	APPLICATIONS ELISA
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PRODUCT SYNONYMS

VEGF; VEGF Rat ELISA Kit; Rat VEGF; VEGF elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Assay Type	Sandwich
Samples	Rat serum, plasma, body fluids, tissue lysates or cell culture supernatants
Detection Range	15.6 pg/ml-1000 pg/ml
Sensitivity	< 1 pg/ml
Applicable Applications for VEGF elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve
Results of a typical standard run of a Rat VEGF ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	Pg/ml	0	15.6	31.2	62.5	125	250	500	1000
Y	OD450	0.064	0.101	0.143	0.211	0.363	0.685	1.231	2.374

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VEGF elisa kit

Background: Vascular endothelial growth factor (VEGF) is encoded by VEGF gene, which contains 8 exons and maps to 6p21.3. It is a signal protein produced by cells that stimulates vasculogenesis and angiogenesis. Millauer et al. (1994) observed in Rat that its expression was upregulated by hypoxia and that its cell surface receptor, Flk1, is exclusively expressed in endothelial cells. Overexpression of VEGF can cause vascular disease in the retina of the eye and other parts of the body. Drugs such as bevacizumab can inhibit VEGF and control or slow those diseases. The VEGF is a candidate hormone for facilitating glucose passage across the blood-brain barrier under critical conditions.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-VEGF polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-VEGF polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the VEGF amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of VEGF can be calculated.

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.

