

## Anti-Mouse VEGF Antibody [PSH02-73] - BSA and Azide free (Detector)

# HA721851



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Mouse
<b>Applications:</b>	ELISA(Det)
<b>Molecular Wt:</b>	Predicted band size: 43 kDa
<b>Clone number:</b>	PSH02-73

**Description:** Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. Induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. Binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. Binds to the NRP1/neuropilin-1 receptor. Binding to NRP1 receptor initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development. In developing embryos, expressed mainly in the choroid plexus, paraventricular neuroepithelium, placenta and kidney glomeruli. Also found in bronchial epithelium, adrenal gland and in seminiferous tubules of testis. High expression continues in kidney glomeruli and choroid plexus in adults.

**Immunogen:** Recombinant full length protein.

**Positive control:** Recombinant Mouse VEGF protein

**Subcellular location:** Secreted.

**Database links:** SwissProt: Q00731 Mouse

**Recommended Dilutions:**

**ELISA(Det)** Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH02-72] to Mouse VEGF (Capture) (HA721850). The reference range value is 13.72-10000pg/ml.

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

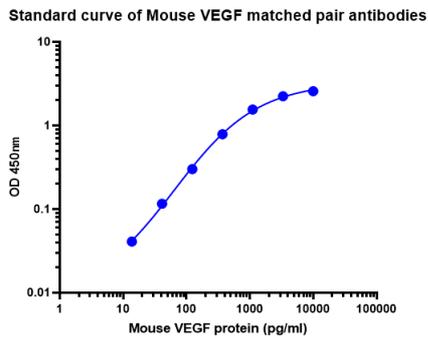
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## Images

**Fig1:** Sandwich ELISA analysis of Mouse VEGF matched pair antibodies.



Elisa assay was performed by coating wells of a 96-well plate with 100  $\mu$ l per well of capture antibody (HA721850) diluted in carbonate/bicarbonate buffer, at a concentration of 2  $\mu$ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150  $\mu$ l 0.05% tween-20 1%BSA blocking buffer, and incubated with serial diluted Mouse VEGF protein starting from 10000 pg/ml to 0 pg/ml and detect antibody [PSH02-72]-Biotin for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100  $\mu$ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. He W., Bai G., Zhou H., Wei N., White N.M., Lauer J., Liu H., Shi Y., Dumitru C.D., Lettieri K., Shubayev V., Jordanova A., Guergueltcheva V., Griffin P.R., Burgess R.W., Pfaff S.L., Yang X.L. CMT2D neuropathy is linked to the neomorphic binding activity of glycyI- tRNA synthetase. *Nature* 526:710-714 (2015)
2. Katsman M., Azriel A., Horev G., Reizel Y., Levi B.Z. N-VEGF, the Autoregulatory Arm of VEGF-A. *Cells* 11:0-0 (2022)

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