



Mouse Vascular endothelial growth factor A/VEGF-A/VEGF-164/VEGF-1/VEGF-120/VEGF-2 ELISA Kit (2 plates)

Catalogue No.: BEK-2110-2P

Description: The mouse Vascular endothelial growth factor (VEGF) Kit is a sandwich ELISA. The capture antibody is a VEGF antibody pre-coated onto the 96-well strip plates provided in the kit. Mouse test samples and standards of known VEGF concentration are added to these wells and allowed to complex with the bound VEGF antibody. A biotinylated anti-mouse VEGF antibody is then added. This detection antibody binds to the antigen thus completing the sandwich. After washing, an enzyme Avidin-Biotin-Peroxidase complex (ABC) is added which binds to the second antibody. The peroxidase substrate TMB is added to induce a coloured reaction product. The intensity of this coloured product is directly proportional to the concentration of VEGF present in the samples. The purpose of this kit is the in-vitro quantitative determination of mouse VEGF in samples such as sera, plasma, and cell culture supernates. This kit has been configured for research use only and is not to be used in diagnostic or clinical procedures.

Vascular endothelial growth factor (VEGF) is a disulfide linked homodimeric protein associated with angiogenesis, vasculogenesis and endothelial cell growth. At least 10 isoforms of VEGF are produced by alternative splicing with varying levels of expression. The isoforms VEGF188, VEGF164 and VEGF120 are widely expressed whereas the isoforms VEGF205 and VEGF144 are uncommon. Isoforms VEGF165 and VEGF120 are freely secreted whereas isoform VEGF188 remains cell associated.

Batch No.: See product labels

Antigen: The standard and immunogen used in this kit is recombinant mouse VEGF-A amino acids 27-190 produced in and purified from a SF21 insect cell expression system.

Other Names: VEGF-A; Vascular permeability factor; VPF; VEGFA; VEGF; VEGF-1' VEGF164; VEGF-2; VEGF120

Accession: Q00731 VEGFA_MOUSE;

Specificity: Mouse VEGF. This kit recognizes both the 164 and 120 amino acid residue forms of mouse VEGF.

Storage: Store at 2-8C

Specific References: Hutton CP, Déry N, Rosa E, Lemon JA, Rollo CD, Boreham DR, Fahnestock M, deCatanzaro D, Wojtowitz JM, Becker S (2015) Synergistic effects of diet and exercise on hippocampal function in chronically stressed mice. *Neuroscience* 308:180-93. doi: 10.10166.

Kit components: The ELISA kit box contains 2 x 96-well pre-coated strip plates, protein standards, detection reagents, substrate buffer and detailed protocols.

Range: 15.6 pg/mL - 1,000 pg/mL

Sensitivity: < 2 pg/ml

Kit protocol: Please refer to our online product listing for current protocol/MSDS versions.

FOR RESEARCH USE ONLY

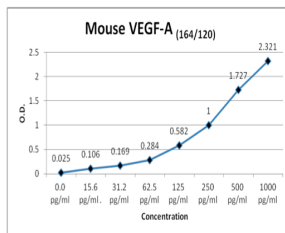


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IX: Typical Standard Curve (for reference only, not to be used for actual data)

Concentration pg/ml	0.0	15.6	31.2	62.5	125	250	500	1000
O.D.	0.025	0.106	0.169	0.284	0.582	1.00	1.727	2.321

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



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