

Product datasheet for **DM3521P**

VEGFA (Isoform 165) Mouse Monoclonal Antibody [Clone ID: 7G7]

Product data:

| | |
|------------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | 7G7 |
| Applications: | ELISA, IF, IHC, WB |
| Recommended Dilution: | ELISA: Use at 1-2 µg/ml. Western blot: Use at 1-5 µg/ml. Immunofluorescence. Immunohistochemistry: Use at 1-10 µg/ml. |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Recombinant Human VEGF ₁₆₅ protein (45 kDa) <i>Cat.-No</i> DA3514X |
| Specificity: | The antibody recognizes Human VEGF-A. Other species not tested. |
| Formulation: | PBS, pH 7.4 without preservative or stabilizer State: Purified State: Lyophilized purified IgG fraction |
| Reconstitution Method: | Restore in sterile water to a concentration of 0.1-1.0 mg/ml. |
| Purification: | Protein G Chromatography |
| Conjugation: | Unconjugated |
| Storage: | Can be stored lyophilized at RT for up to 1 month or at -20°C long term. |
| Stability: | Shelf life: one year from despatch. After reconstitution store the antibody undiluted at 2-8°C for two weeks or (in aliquots) at -20°C for 6 months. Avoid repeated freezing and thawing! |
| Gene Name: | vascular endothelial growth factor A |
| Database Link: | Entrez Gene 7422 Human P15692 |



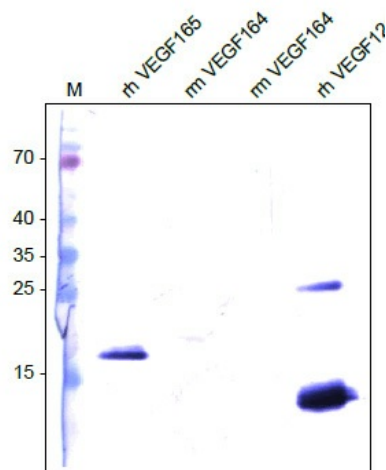
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Background:

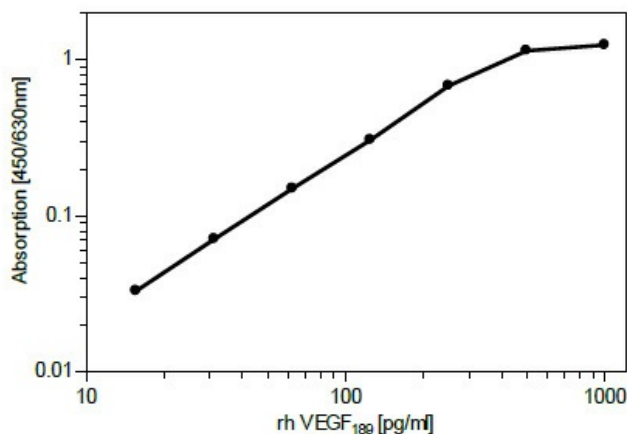
VEGFA is a member of the PDGF/VEGF growth factor family and is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternate transcriptional splice variants, encoding either freely secreted or cell associated isoforms, have been characterized. There is also evidence for the use of non AUG (CUG) translation initiation sites upstream of, and in frame with the first AUG, leading to additional isoforms.

Synonyms:

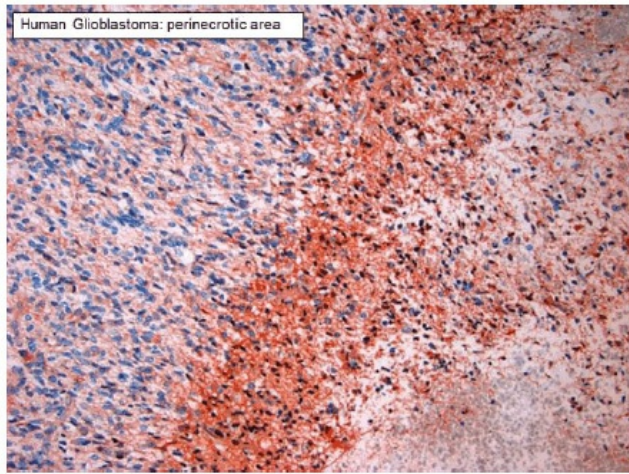
VEGFA, VEGF, VPF, Vascular endothelial growth factor A, Vascular permeability factor

Product images:


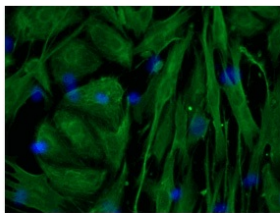
Western analysis of recombinant human VEGF165, mouse VEGFG164 and human VEGF121 using a monoclonal mouse anti-human VEGF-A antibody. There is no cross reactivity with mouse VEGF164.



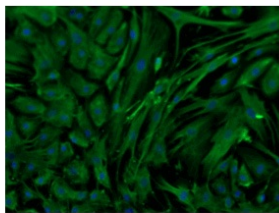
VEGF-A Sandwich-ELISA using the monoclonal mouse antihuman VEGF-A antibody as capture antibody and recombinant human VEGF189 as standard. The Biotinylated monoclonal mouse anti-human VEGF-A antibody [DM3521B] was used for detection.



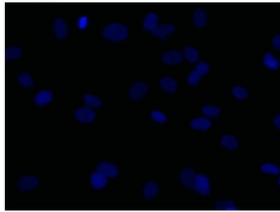
Immunohistochemistry with a paraffin-bedded section of human Glioblastoma tissue.



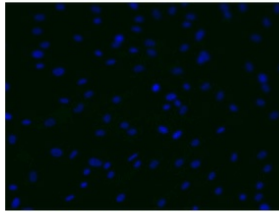
mouse anti-human VEGF-A (400X)



mouse anti-human VEGF-A (200X)



a-mouse ALEXA (400X)



a-mouse ALEXA (200X)

Immunofluorescence staining of VEGF-A in a mixture of primary human dermal lymphatic endothelial cells (HDLEC) and human dermal normal fibroblasts with monoclonal mouse anti-Human VEGF-A Clone: 7G7. The cells were pretreated with 0, 1% Triton X100. Control with goat anti-mouse ALEXA Flour 488, 1:600).