

## VEGF (Vascular Endothelial Growth Factor) Antibody

Mouse Monoclonal Antibody [Clone VEGF/9369]

| Catalog No       | Format                                       | Size   |
|------------------|----------------------------------------------|--------|
| 7422-MSM13-P0    | Purified Ab with BSA and Azide at 200ug/ml   | 20 ug  |
| 7422-MSM13-P1    | Purified Ab with BSA and Azide at 200ug/ml   | 100 ug |
| 7422-MSM13-P1ABX | Purified Ab WITHOUT BSA or Azide at 1.0mg/ml | 100 ug |

| Applications               | Tested Dillution | Note                                                                                                                                                                              |
|----------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunohistochemistry (IHC) | 1-2ug/ml         | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

### Product Details

|                        |                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------|
| Clone                  | VEGF/9369                                                                                                       |
| Immunogen              | Recombinant human VEGFA protein                                                                                 |
| Host                   | Mouse                                                                                                           |
| Clonality              | Monoclonal                                                                                                      |
| Isotype / Light Chain  | IgG2b / Kappa                                                                                                   |
| Mol. Weight of Antigen | 43.6kDa                                                                                                         |
| Cellular Localization  | Cytoplasm, Endoplasmic reticulum, Extracellular matrix, Extracellular space, Golgi apparatus, Nucleus, Secreted |
| Species Reactivity     | Human                                                                                                           |
| Positive Control       | Higher expression in pituitary tumors than the pituitary gland                                                  |

*\*Optimal dilution for a specific application should be determined.*

### Product Images for VEGF (Vascular Endothelial Growth Factor) Antibody

#### Specificity & Comments

Participates in the induction of key genes involved in the response to hypoxia and in the induction of angiogenesis such as HIF1A (PubMed:35455969). Involved in protecting cells from hypoxia-mediated cell death (By similarity)., Growth factor active in angiogenesis, vasculogenesis and endothelial cell growth (PubMed:34530889). 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 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 (By similarity). Also binds the DEAR/FBXW7-AS1 receptor (PubMed:17446437)., Binds to the KDR receptor but does not activate downstream signaling pathways, does not activate angiogenesis and inhibits tumor growth.

#### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

#### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

#### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.