

Mouse Anti-VEGFR1/Flt1 [MD412]: MC0677

Intended Use: For Research Use Only

Description: Three cell membrane receptor tyrosine kinases, Flt1 (also designated VEGFR1), Flk1 (also designated VEGFR2) and Flt4, putatively involved in the growth of endothelial cells, are characterized by the presence of seven immunoglobulin-like sequences in their extracellular domain. VEGFR1 plays a crucial role in angiogenesis by serving as a high-affinity receptor for vascular endothelial growth factors (VEGFs), which are essential for the formation of new blood vessels. On the basis of structural similarity to Flt1 and Flk1, it has been speculated that Flt4 might represent a third receptor for either VEGF or a VEGF-related ligand.

Specifications

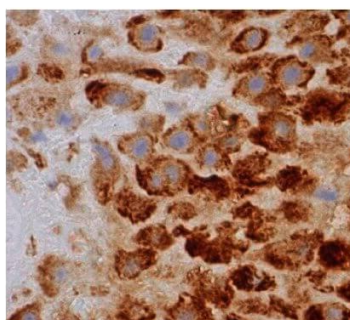
Clone:	MD412
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Immunogen:	Human VEGFR protein aa 23-247
Localization:	Cytoplasm, membrane, secreted
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN ₃)
Storage:	Store at 2°- 8°C
Applications:	IHC, IF, IP, WB
Package:	

Description	Catalog No.	Size
VEGFR1/Flt1 Concentrated	MC0677	1 ml

IHC Procedure

Positive Control Tissue:	Placenta, cerebellum or skin cancer
Concentrated Dilution:	25-200
Pretreatment:	Citrate pH6.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human placenta stained with anti-VEGFR using DAB

References:

1. Cediranib, an inhibitor of vascular endothelial growth factor receptor kinases, inhibits proliferation and invasion of prostate adenocarcinoma cells. Majid Momeny. Et al. Eur. J. Pharmacol.2020. 173298. PMID: 32593665.
2. Vasculogenic mimicry is associated with trastuzumab resistance of HER2-positive breast cancer. Ami Hori. Et al. Breast Cancer Res. 21: 88, 2018. PMID: 31387614.
3. Tc-99m and Fluorescence-Labeled Anti-Flt1 Peptide as a Multimodal Tumor Imaging Agent Targeting Vascular Endothelial Growth Factor-Receptor 1. Kim, MH. et al. Nucl Med Mol Imaging. 52: 359-367, 2018. PMID: 30344784.