

## 10-7580: Monoclonal antibody to VEGFR-2 (Clone: ABM4A88)

Clonality :	Monoclonal
Clone Name :	ABM4A88
Application :	IHC
Reactivity :	Human
Gene :	KDR
Gene ID :	3791
Uniprot ID :	P35968
Format :	Purified
Alternative Name :	KDR,FLK1,VEGFR2
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	A partial length recombinant protein from N terminal portion of hVEGFR2 was used as the immunogen for this antibody.

### Description

VEGFR-2 is the major receptor involved in vasculogenesis and angiogenesis that regulates endothelial cell survival, migration, and mitogenesis. After its binding to VEGF, VEGFR-2 dimerizes and undergoes autophosphorylation of tyrosine residues within its cytoplasmic domain, thus initiating the downstream signaling cascades. However, as a therapeutic target, the attractiveness of VEGFR-2 is multifaceted. VEGFR-2 is not only highly expressed on the surface of tumor-related endothelial cells, but also expressed directly on tumor cells. Selective VEGFR-2 blockades can lead to inhibition of receptor phosphorylation and tumor angiogenesis as well as tumor cell apoptosis, which ultimately leads to tumor regression. Importantly, selective inhibition of VEGFR-2, can be tailored to attenuate only specific signal-transduction pathways and do not affect any other RTKs (Receptor Tyrosine Kinases ), so they should eliminate toxicity reactions resulting from off-target receptor inhibitions, which is a frequent phenomenon observed by non-specific inhibitors of VEGF receptors.

### Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Immunohistochemistry: 5-10 µg/ml

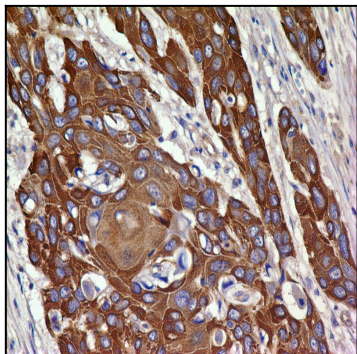


Fig:1- Immunohistochemical analysis of VEGFR-2 in human squamous cell carcinoma of esophagus using VEGFR-2 antibody (Clone: ABM4A88) at 5 µg/ml.

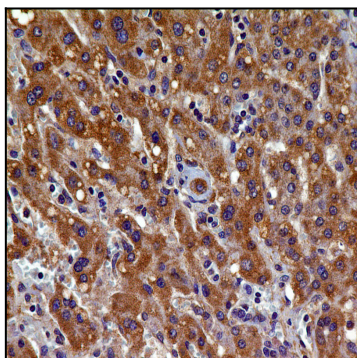


Fig:2- Immunohistochemical analysis of VEGFR-2 in human Hepatocellular carcinoma using VEGFR-2 antibody (Clone: ABM4A88) at 5 µg/ml.