

# Human VEGFR2/KDR/Fik-1 Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 89106

Catalog Number: FAB357N

100 Tests, 25 Tests

## DESCRIPTION

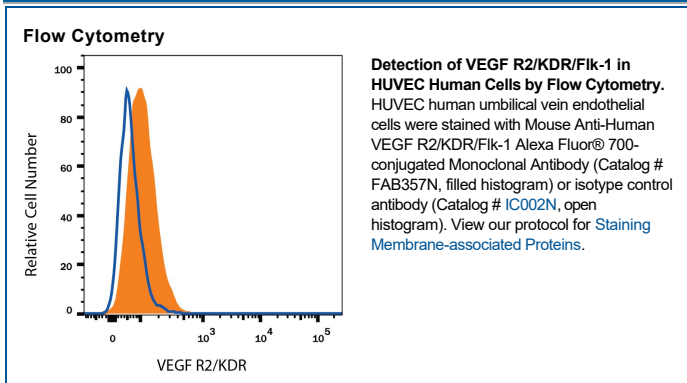
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human VEGF R2/KDR/Fik-1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) VEGF R1, rhVEGF R3 or recombinant mouse VEGF R2 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 89106
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human VEGF R2/KDR/Fik-1 Ala20-Glu764 Accession # P35968
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	5 µL/10 <sup>6</sup> cells	See Below

## DATA



## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

VEGF R2 (KDR/Fik-1), VEGF R1 (Flt-1) and VEGF R3 (Flt-4) belong to the class III subfamily of receptor tyrosine kinases (RTKs). All three receptors contain seven immunoglobulin-like repeats in their extracellular domains and kinase insert domains in their intracellular regions. The expression of VEGF R1, 2, and 3 is almost exclusively restricted to the endothelial cells. These receptors are likely to play essential roles in vasculogenesis and angiogenesis. Mature VEGF R2 is composed of a 745 aa extracellular domain, a 25 aa transmembrane domain and a 567 aa cytoplasmic domain. In contrast to VEGF R1 which binds both P/IGF and VEGF with high affinity, VEGF R2 binds VEGF but not P/IGF with high affinity. The recombinant soluble VEGF R2/Fc chimera binds VEGF with high affinity and is a potent VEGF antagonist.

## References:

1. Ferra, N. and R. Davis-Smyth (1997) *Endocrine Reviews* **18**:4.

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