



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Mouse Anti-HUMAN VEGF RECEPTOR 1

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-03435

**Target Species**  
Human

**Isotype**  
IgG1

### Synonyms

FLT, FRT

### Preparation

**Immunogen:** Extracellular domain of recombinant human VEGFR-1

### Specificity

DS-MB-03435 specifically recognizes an epitope within amino acid residues 1-251 located in the extracellular domain of human VEGF (vascular endothelial growth factor) receptor 1 (VEGFR-1), otherwise known as Flt-1, a tyrosine-kinase receptor expressed by almost all vascular endothelial cells and by some peripheral blood monocytes.

VEGFR-1 acts as a receptor for members of the VEGF protein family, playing a key role in vascular development and the regulation of vascular permeability. The signal transduction cascade resulting from VEGFR-1 binding appears to differ from that of VEGFR-2 (KDR), since the proliferation of cells lacking VEGFR-1 can be induced by VEGFR-2 binding, whilst the proliferation of cells lacking VEGFR-2, cannot be induced by VEGFR-1 binding alone.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Tissue Culture Supernatant - liquid

**Preservative Stabilizers:** 10mM Sodium Azide ( $\text{NaN}_3$ ), 10% Fetal Bovine Serum

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

### Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

**The products are furnished for LABORATORY RESEARCH USE ONLY.**  
**Not for diagnostic or therapeutic use.**



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### Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunohistology - Frozen	•			
Immunohistology - Paraffin			•	
Immunohistology - Resin			•	
Western Blotting			•	
Immunoprecipitation	•			
Elisa	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

### Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5,000-1:10,000

### Reference

1. Neufeld, G. et al. (1999) Vascular endothelial growth factor (VEGF) and its receptors. FASEB J. 13: 9-22.

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