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Flt1
Rat Anti-Mouse VEGFR-1 (Clone 5F13) mAb

Catalog No.	CMV801	**Quantity:**	100 µg

Alternate Names: Vascular endothelial growth factor receptor 1, VEGFR-1, Embryonic receptor kinase 2, Fms-like tyrosine kinase 1, FLT-1, Tyrosine-protein kinase receptor FLT

Description: Vascular Endothelial Growth Factor (VEGF or VEGF-A) family members are major mediators of vasculogenesis and angiogenesis. Specifically, biological activities attributed to VEGFs include: mitogenic activity on endothelial cells, increased permeability of endothelial cells to proteins, stimulation of monocyte migration across endothelial cells and angiogenic activity. Three VEGF family receptors have been described: Flt-1 (fms-like tyrosine kinase) also known as VEGF R1, KDR (kinase-insert domain-containing receptor) also known as Flk-1 and VEGF R2, and Flt-4 also known as VEGF R3. The three receptors contain seven extracellular immunoglobulin-like domains and share substantial sequence homology. In addition, neuropilin-1, a neuronal receptor, also acts as a co-receptor for VEGF when expressed on vascular endothelial cells, endothelial cell progenitors and monocytes. VEGF R1 is expressed primarily on endothelial cells but is also found on human peripheral blood monocytes. Through its endothelial mitogenic and hyperpermeability activities, VEGF influences a variety of immune functions related to wound healing and blood protein traffic across endothelial barriers.

UniProt ID: P35969

Gene ID: 14254

Source: Cell culture supernatant

Specificity: Recognizes mouse VEGFR-1. No reactivity to mouse VEGFR-2 and VEGFR3.

Host: Rat

Immunogen: Recombinant mouse VEGFR-1 extracellular domain

Isotype: Rat IgG2

Clone: 5F13

Formulation: Lyophilized from sterile filtered PBS

Purification: Protein G affinity chromatography

Reconstitution: **Centrifuge vial briefly prior to opening**. Add 500 µl sterile PBS to the vial for a concentration of 200 µg/ml. Gently mix, allow a few minutes to solubilize completely. **Do not vortex.**

Cross-Reactivity: Reactivity to other species VEGFR-1 has not been tested.

Applications: **Western blot:** suggested dilution 1:500-1000
IHC-P: suggested dilution 1:50-100

Storage & Stability: Lyophilized antibody is stable for at least 1 year at -20°C to -80°C. Reconstituted antibody is stable for six months in working aliquots at -20°C to-80°C. **Avoid repeated freeze-thaw cycles.**

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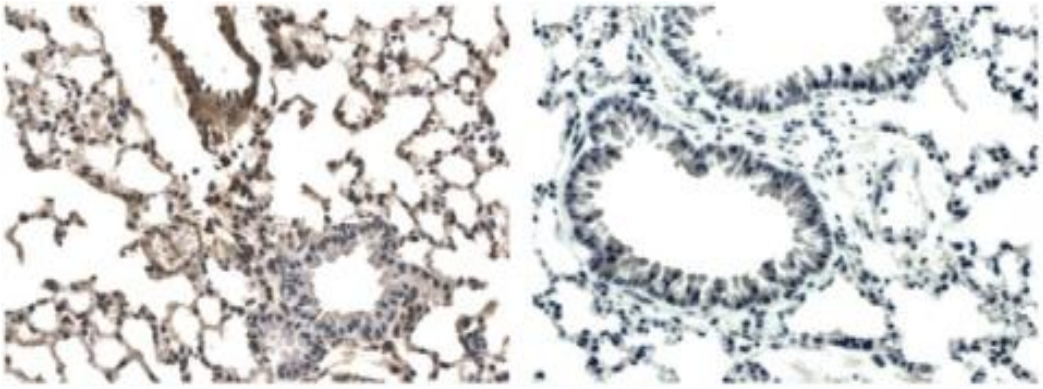
Paraffin lung section from LPS treated mice was subjected to IHC using anti VEGFR-1 CMV801



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