

DP077**Polyclonal Antibody to VEGFR-1 / Flt-1 - Purified****Alternate names:**

FLT, FLT1, FRT, Fms-like tyrosine kinase 1, Tyrosine-protein kinase FRT, Tyrosine-protein kinase receptor FLT, VEGF Receptor 1, VEGFR1, Vascular endothelial growth factor receptor 1, Vascular permeability factor receptor

Quantity:

1 ml

Background:

VEGF Receptor 1 (also known as FLT) belongs to the src gene family and shows tyrosine protein kinase activity that is important for the control of cell proliferation and differentiation. The protein acts as a receptor for VEGF, VEGFB and PGF. An alternatively spliced form of the gene produces a soluble protein (sFlt1) which binds vascular endothelial growth factor (VEGF) with high affinity. sFlt1 has a higher affinity for VEGF indicating that it may function as an inhibitor in the VEGF response. VEGF Receptor 1 is specifically expressed in most vascular endothelial cells and peripheral blood monocytes.

Flt-1 is a cell membrane receptor kinase. Flk-1 has a high affinity receptor for vascular endothelial growth factor and is putatively involved in the growth of endothelial cells and angiogenesis.

Uniprot ID:

[P17948](#)

NCBI:

[NP_001153392.1](#)

GeneID:

[2321](#)

Host:

Rabbit

Immunogen:

A synthetic peptide derived from the C-terminus of the Flt-1 precursor of human origin

Format:

State: Liquid purified Ig fraction with Sodium Azide as preservative.

Applications:

Immunohistochemistry on Formalin-Fixed Paraffin Embedded Tissues: Use a dilution of 1/50-1/100 in an ABC method (incubation period of 30 minutes at room temperature).

Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0, prior to immunostaining.

Recommended Positive Control: Angiosarcoma.

Also useful for Western blotting.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody reacts with a 180 kD protein, known as Flt-1/Vascular Endothelial Growth Factor Receptor 1.

Cellular localization: cytoplasmic.

Species: Human, Mouse and Rat.

Other species not tested.

Storage:

Store the antibody undiluted at 2-8°C.

Shelf life: One year from despatch.

General Readings:

1. Ahmed et al. Growth Factors 12: 235, 1995.
2. Ankam-Sey et al. Oncogene 17: 115, 1998.
3. Shibuya et al. Oncogene 5: 519, 1990.

Pictures:

Formalin fixed paraffin embedded human angiosarcoma stained with Flt-1 antibody DP077 / DP077-05

