Mouse VEGFR3/Flt-4 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF743

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse VEGFR3 in ELISAs and Western blots. In sandwich ELISAs, less than 7% cross-reactivity with recombinant human VEGFR3 is observed and 0.2% cross-reactivity with recombinant mouse (rm) VEGFR1 and rmVEGFR2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*S. frugiperda* insect ovarian cell line *Sf* 21-derived recombinant mouse VEGFR3/Flt-4 Tyr25-Asp770 Accession # P35917
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse VEGFR3/Flt-4 Fc Chimera (Catalog # 743-R3)
Flow Cytometry	2.5 µg/10^6 cells	MS-1 mouse pancreatic islet endothelial cell line
Mouse VEGFR3/Flt-4 Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Mouse VEGFR3/Flt-4 Antibody (Catalog # MAB7431)
ELISA Detection	0.1-0.4 µg/mL	Mouse VEGFR3/Flt-4 Biotinylated Antibody (Catalog # BAF743)
Standard		Recombinant Mouse VEGFR3/Flt-4 Fc Chimera (Catalog # 743-R3)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

VEGFR3 (Flt-4), together with VEGFR1 (Flt-1) and VEGFR2 (KDR/Flk-1), 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 these receptors is almost exclusively restricted to the endothelial cells. These receptors are likely to play essential roles in vasculogenesis and angiogenesis.

In adults, VEGFR3 expression is restricted to the endothelial cells of the lymphatic vessels. Mouse VEGFR3 cDNA encodes a 1363 amino acid (aa) residue precursor protein with a 24 aa residue signal peptide. Mature VEGFR3 has a 751 aa residue extracellular domain, a 22 aa residue hydrophobic transmembrane domain, and a 565 aa residue cytoplasmic domain. The polypeptide sequences of murine Flt-4 is 88% identical to the human homologue. VEGFR3 has been reported to serve as the receptors for VEGF-C and VEGF-D.

References:

1. Finnerty, H. *et al.* (1993) Oncogene **8**:2293.
2. Joukov, V. *et al.* (1996) EMBO J. **15**:290.
3. Achen, M. *et al.* (1998) Proc. Natl. Acad. Sci. USA **95:**548.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 **Canada** TEL 855 668 8722 **China** TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449