Product Information Sheet

Monoclonal Anti-PVascular Endothlial Growth Factor Receptor-1, *VEGFR1*

Catalogue No. MA1101

Lot No. 08A12

Clone: V12

Ig type: mouse IgG1

Size: 100µg/vial

Specificity

Human.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(F)

Immunocytochemistry

To reorder contact us at:

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Immunogen

Recombinant human VEGF-1 receptor.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 1-2µg/ml with the appropriate system to detect VEGFR-1 in cells and tissues.

Immunohistochemistry(F)

At 2-4µg/ml to detect VEGFR-1 in formalin or acetone fixed tissues.

Immunocytochemistry Suitable

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN_3 as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

BACKGROUND

VEGFR1, also known as FMS-related tyrosine kinase 1(FLT1). Oncogene FLT belongs to the src gene family and is related to oncogene ROS . Like other members of this family, it shows tyrosine protein kinase activity that is important for the control of cell proliferation and differentiation. FLT is mapped to 13q12. VEGF receptor 1 signaling is essential for osteoclast development and bone marrow formation in colony-stimulating factor 1-deficient mice.

REFERENCE

1. Imbert, A.; Rosnet, O.; Marchetto, S.; Ollendorff, V.; Birnbaum, D.; Pebusque, M.-J. : Characterization of a yeast artificial chromosome from human chromosome band 13q12 containing the FLT1 and FLT3 receptor-type tyrosine kinase genes. *Cytogenet. Cell Genet.* 67: 175-177, 1994.

2. Niida, S.; Kondo, T.; Hiratsuka, S.; Hayashi, S.-I.; Amizuka, N.; Noda, T.; Ikeda, K.; Shibuya, M. : VEGF receptor 1 signaling is essential for osteoclast development and bone marrow formation in colony-stimulating factor 1-deficient mice. *Proc. Nat. Acad. Sci.* 102: 14016-14021, 2005.