

# Flk-1 (A-3): sc-6251

## BACKGROUND

Three cell membrane receptor tyrosine kinases, Flt (also designated VEGF-R1), Flk-1 (also designated VEGF-R2) and Flt-4, putatively involved in the growth of endothelial cells, are characterized by the presence of seven immunoglobulin-like sequences in their extracellular domain. These receptors exhibit high degrees of sequence relatedness to each other as well as lesser degrees of relatedness to the class III receptors including CSF-1/Fms, PDGR, SLFR/Kit and Flt-3/Flk-2. Two members of this receptor class, Flt-1 and Flk-1, have been shown to represent high affinity receptors for vascular endothelial growth factors (VEGFs). On the basis of structural similarity to Flt and Flk-1, it has been speculated that Flt-4 might represent a third receptor for either VEGF or a VEGF-related ligand.

## CHROMOSOMAL LOCATION

Genetic locus: KDR (human) mapping to 4q12; Kdr (mouse) mapping to 5 C3.3.

## SOURCE

Flk-1 (A-3) is a mouse monoclonal antibody raised against amino acids 1158-1345 mapping at the C-terminus of the Flk-1 of mouse origin.

## PRODUCT

Each vial contains 200 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as agarose conjugate for immunoprecipitation, sc-6251 AC, 500 µg/0.25 ml agarose in 1 ml.

Available as HRP conjugate for Western Blotting, sc-6251 HRP, 200 µg/1 ml.

## APPLICATIONS

Flk-1 (A-3) is recommended for detection of Flk-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for Flk-1 siRNA (h): sc-29318, Flk-1 siRNA (m): sc-35390, Flk-1 shRNA Plasmid (h): sc-29318-SH, Flk-1 shRNA Plasmid (m): sc-35390-SH, Flk-1 shRNA (h) Lentiviral Particles: sc-29318-V and Flk-1 shRNA (m) Lentiviral Particles: sc-35390-V.

Molecular Weight of Flk-1: 150 kDa (immature), 200 kDa (intermediate glycosylated) and 230 kDa (mature).

Positive Controls: ECV304 cell lysate: sc-2269, Flk-1 (m): 293T Lysate: sc-120289 or mouse liver extract: sc-2256.

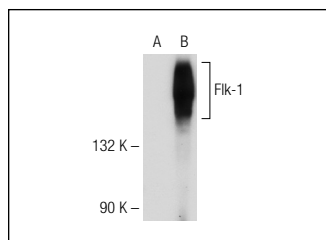
## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

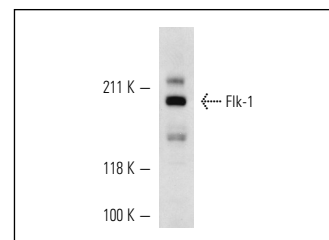
## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## DATA



Flk-1 (A-3): sc-6251. Western blot analysis of Flk-1 expression in non-transfected: sc-117752 (A) and mouse Flk-1 transfected: sc-120289 (B) 293T whole cell lysates.



Flk-1 (A-3): sc-6251. Western blot analysis of Flk-1 expression in VEGF-treated HUV-EC-C whole cell lysate.

## SELECT PRODUCT CITATIONS

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