Anti-VEGFR3 / FLT4 Antibody [PSH20-96] - BSA and Azide free

HA751778

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 153 kDa
Clone number:	PSH20-96

Description: Fms-related tyrosine kinase 4, also known as FLT4, is a protein which in humans is encoded by the FLT4 gene. This gene encodes a tyrosine kinase receptor for vascular endothelial growth factors C and D. The protein is thought to be involved in lymphangiogenesis and maintenance of the lymphatic endothelium. Mutations in this gene cause hereditary lymphedema type IA.

Immunogen: Recombinant protein within mouse VEGFR3 / FLT4 aa 1-796.

Positive control: A549 cell lysate, mouse embryo tissue, rat embryo tissue.

Subcellular location: Cell membrane, Cytoplasm, Nucleus.

Database links: SwissProt: P35916 Human | P35917 Mouse | Q91ZT1 Rat

Recommended Dilutions:

WB	1:5,000
IHC-P	1:200-1:1,000

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Images

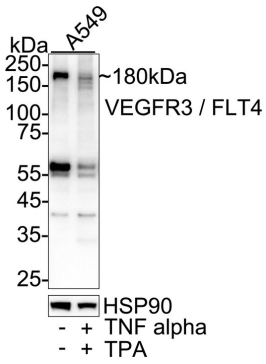

Fig1: Western blot analysis of VEGFR3 / FLT4 on different lysates with Rabbit anti-VEGFR3 / FLT4 antibody (HA751778) at 1/5,000 dilution.

Lane 1: A549 cell lysate (20 µg/Lane)
Lane 2: A549 treated with 10ng/mL TNF alpha and 10nM TPA for 24 hours cell lysate (20 µg/Lane)

Predicted band size: 153 kDa
Observed band size: 180 kDa

Exposure time: 59 seconds; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751778) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

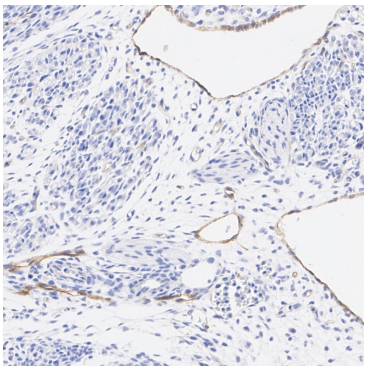

Fig2: Immunohistochemical analysis of paraffin-embedded mouse embryo tissue with Rabbit anti-VEGFR3 / FLT4 antibody (HA751778) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751778) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

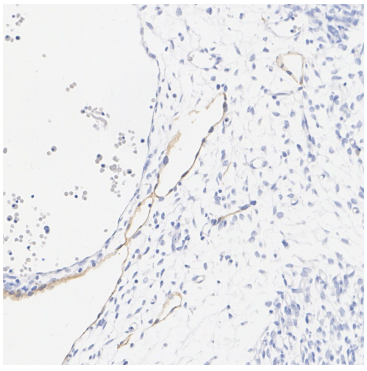

Fig3: Immunohistochemical analysis of paraffin-embedded rat embryo tissue with Rabbit anti-VEGFR3 / FLT4 antibody (HA751778) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (HA751778) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Background References

1. Ma L et al. FLT4/VEGFR3 activates AMPK to coordinate glycometabolic reprogramming with autophagy and inflammasome activation for bacterial elimination. Autophagy. 2022 Jun
2. Monaghan RM et al. FLT4 causes developmental disorders of the cardiovascular and lymphovascular systems via pleiotropic molecular mechanisms. Cardiovasc Res. 2024 Sep