

# Anti-VEGFR3 / FLT4 Antibody [PSH20-96]

HA724191



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

<b>WB</b>	1:5,000
<b>IHC-P</b>	1:200-1:1,000

**Storage Buffer:** 1\*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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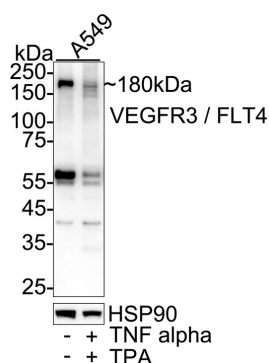
Orders:0086-571-88062880

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## Images



**Fig1:** Western blot analysis of VEGFR3 / FLT4 on different lysates with Rabbit anti-VEGFR3 / FLT4 antibody (HA724191) 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)

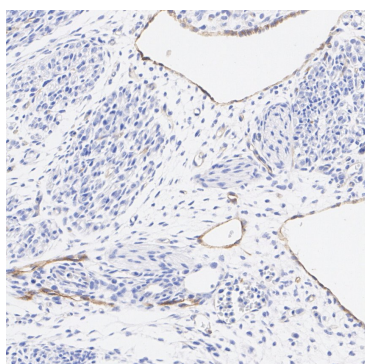
Predicted band size: 153 kDa

Observed band size: 180 kDa

Exposure time: 59 seconds; ECL: K1801;

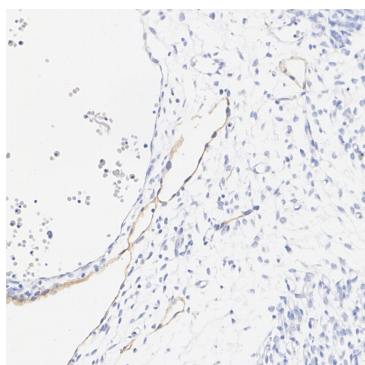
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA724191) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4 °C 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 (HA724191) 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<sub>2</sub>O and PBS, and then probed with the primary antibody (HA724191) 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 (HA724191) 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<sub>2</sub>O and PBS, and then probed with the primary antibody (HA724191) 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.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### 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

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