

Datasheet for ABIN3042978
anti-FLT1 antibody (N-Term)



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Overview

Quantity:	100 µg
Target:	FLT1
Binding Specificity:	AA 278-298, N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FLT1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Vascular endothelial growth factor receptor 1(FLT1) detection. Tested with WB in Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of rat FLT1(278-298aa IRQRIDQSNPHSNVFHSLVKI).
Sequence:	IRQRIDQSNP HSNVFHSLVK I
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Vascular endothelial growth factor receptor 1(FLT1) detection. Tested with WB in Rat.</p> <p>Gene Name: fms-related tyrosine kinase 1</p> <p>Protein Name: Vascular endothelial growth factor receptor 1</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: FLT1

Alternative Name: FLT1 ([FLT1 Products](#))

Background: Vascular endothelial growth factor receptor 1(FLT1) is a protein that in humans is encoded by the FLT1 gene. Oncogene FLT belongs to the src gene family. It is mapped to 13q12. The deduced 1,338-amino acid protein has a calculated molecular mass of 150.6 kD. It has a 758-amino acid extracellular domain, followed by a 22-amino acid transmembrane region and a 558-amino acid cytoplasmic region containing a cluster of basic amino acids and a tyrosine kinase domain. sFLT-1 was identified in placenta, adult lung, kidney, liver and uterus. Like other members of this family, it shows tyrosine protein kinase activity that is important for the control of cell proliferation and differentiation.

Synonyms: EC 2.7.10.1 antibody|Flt 1 antibody|FLT antibody|Flt-1 antibody|Flt1 antibody|Fms like tyrosine kinase 1 antibody|Fms related tyrosine kinase 1(vascular endothelial growth factor/vascular permeability factor receptor) antibody|Fms related tyrosine kinase 1 antibody|Fms related tyrosine kinase 1 vascular endothelial growth factor/vascular permeability factor receptor antibody|Fms-like tyrosine kinase 1 antibody|FRT antibody|Soluble VEGF receptor 1 14 antibody|Soluble VEGFR1 variant 2 antibody|Soluble VEGFR1 variant 21 antibody|Tyrosine protein kinase FRT antibody|Tyrosine protein kinase receptor FLT antibody|Tyrosine-protein kinase FRT antibody|Tyrosine-protein kinase receptor FLT antibody|Vascular endothelial growth factor receptor 1 antibody|Vascular endothelial growth factor receptor 1 Precursor antibody|Vascular endothelial growth factor vascular permeability factor receptor antibody|Vascular permeability factor receptor 1 antibody|Vascular permeability factor receptor antibody|VEGFR 1 antibody|VEGFR-1 antibody|VEGFR1 antibody|VGFR1_HUMAN antibody

UniProt: [P53767](#)

Pathways: [RTK Signaling](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [VEGFR1 Specific Signals](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, The detection limit for FLT1 is approximately 0.5 ng/lane under reducing conditions.

Application Details

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested. Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: 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 a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

Product cited in: Liu, Kuang, Wu, Jin, Sun: "A novel polysaccharide from Sargassum integerrimum induces apoptosis in A549 cells and prevents angiogenesis in vitro and in vivo." in: **Scientific reports**, Vol. 6, pp. 26722, (2018) ([PubMed](#)).

Wu, You, Ma, Li, Yuan, Li, Ye, Liu, Yao, Chen, Lai, Yang: "Role of transient receptor potential ion channels and evoked levels of neuropeptides in a formaldehyde-induced model of asthma in BALB/c mice." in: **PLoS ONE**, Vol. 8, Issue 5, pp. e62827, (2013) ([PubMed](#)).



Western Blotting

Image 1. Anti- VEGFR antibody, Western blotting All lanes:
Anti VEGFR () at 0.5ug/ml WB: Rat Lung Tissue Lysate at
50ug Predicted bind size: 151KD Observed bind size: 151KD

Western Blotting

Image 2.