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Datasheet for ABIN6243861  
**anti-FLT1 antibody (AA 1-380)**

2 Images

### Overview

Quantity:	400 µL
Target:	FLT1
Binding Specificity:	AA 1-380
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FLT1 antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	This FLT1 antibody is generated from a mouse immunized with a recombinant protein.
Clone:	1453CT519-277-79
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

### Target Details

Target:	FLT1
Alternative Name:	FLT1 ( <a href="#">FLT1 Products</a> )
Background:	Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFA, VEGFB and PGF, and plays an essential role in the development of embryonic vasculature, the regulation of

## Target Details

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angiogenesis, cell survival, cell migration, macrophage function, chemotaxis, and cancer cell invasion. May play an essential role as a negative regulator of embryonic angiogenesis by inhibiting excessive proliferation of endothelial cells. Can promote endothelial cell proliferation, survival and angiogenesis in adulthood. Its function in promoting cell proliferation seems to be cell-type specific. Promotes PGF-mediated proliferation of endothelial cells, proliferation of some types of cancer cells, but does not promote proliferation of normal fibroblasts (in vitro). Has very high affinity for VEGFA and relatively low protein kinase activity, may function as a negative regulator of VEGFA signaling by limiting the amount of free VEGFA and preventing its binding to KDR. Likewise, isoforms lacking a transmembrane domain, such as isoform 2, isoform 3 and isoform 4, may function as decoy receptors for VEGFA. Modulates KDR signaling by forming heterodimers with KDR. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate and the activation of protein kinase C. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, leading to activation of phosphatidylinositol kinase and the downstream signaling pathway. Mediates activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Phosphorylates SRC and YES1, and may also phosphorylate CBL. Isoform 1 phosphorylates PLCG. Promotes phosphorylation of AKT1 at 'Ser-473'. Promotes phosphorylation of PTK2/FAK1. Isoform 7 has a truncated kinase domain, it increases phosphorylation of SRC at 'Tyr-418' by unknown means and promotes tumor cell invasion.

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Molecular Weight: 150769

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UniProt: [P17948](#)

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

## Application Details

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Application Notes: WB: 1:2000. WB: 1:2000

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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Preservative: Sodium azide

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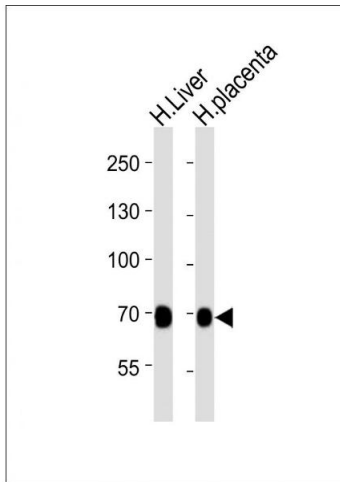
## Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

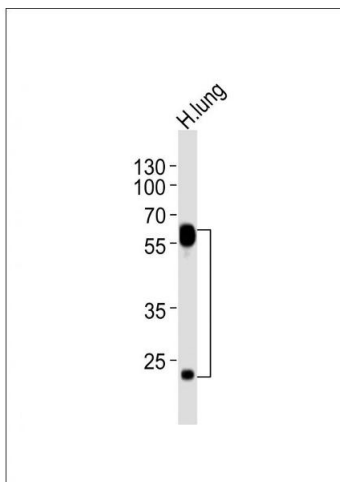
Expiry Date: 6 months

## Images



### Western Blotting

**Image 1.** All lanes : Anti-FLT1 Antibody at 1:2000 dilution  
Lane 1: human Liver lysates Lane 2: human placenta lysates  
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 151 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



### Western Blotting

**Image 2.** Anti-FLT1 Antibody at 1:2000 dilution + human lung lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 151 kD Blocking/Dilution buffer: 5 % NFDM/TBST.