abcam

ab9688

Anti-Flt3 ligand/Flt3L antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Standard buffer
Form	Lyophilized
Clonality	Polyclonal
Immunogen	Recombinant Fragment Protein within Human FLT3LG aa 1-200. The exact immunogen used to generate this antibody is proprietary information. Database link P49771
Purification technique	Affinity purification Immunogen
Reconstitution	reconstitute with water at 200µL

Reactivity data

Flow Cyt

Expected

Species	Recombinant fragment, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant full length protein - Human

Dilution info	-
Notes	-

WB

Expected

Species	Recombinant fragment
Dilution info	-
Notes	The detection limit for recombinant Flt3 ligand/Flt3L is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

Species	Human
Dilution info	-
Notes	The detection limit for recombinant Flt3 ligand/Flt3L is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

sELISA

Tested

Species	Recombinant full length protein - Human
Dilution info	0.5-2 µg/mL
Notes	In conjunction with ab84261 rabbit polyclonal to Flt3 ligand/Flt3L (Biotin) as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant human Flt3 ligand/Flt3L.

Predicted

Species	Human
Dilution info	-

Notes	-

Not recommended

Species	Recombinant fragment
Dilution info	-
Notes	-

Target data

See full target information FLT3LG

Function	Stimulates the proliferation of early hematopoietic cells by activating FLT3. Synergizes well with a number of other colony stimulating factors and interleukins. Required for the development of B cells, and dendritic cells (DCs).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

hflt3-Ligand (flk2-ligand) stimulates the proliferation and colony formation of certain bone marrow precursor cells including CD34+ cells

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The Flt3 ligand (Flt3L) also known as Flt3-L Flt3 ligand protein or flt-3 ligand protein is a small cytokine with a molecular mass of approximately 18 to 19 kDa. It acts as a growth factor by binding to the Flt3 receptor tyrosine kinase on the surface of hematopoietic progenitor cells. Flt3L is expressed in various tissues including the bone marrow where it plays a significant role in hematopoiesis. It is critical in dendritic cell and B cell development impacting the immune response mechanism.
Biological function summary	The Flt3 ligand plays an essential role in the immune system. It is a monomeric cytokine that induces proliferation of early lineage cells within the hematopoietic system. Flt3L does not function as part of a complex but acts independently to stimulate the proliferation differentiation and survival of hematopoietic cells. By interacting directly with its receptor it significantly influences the innate and adaptive immune systems through the maturation of dendritic and B cells.
Pathways	The Flt3 ligand is involved in hematopoietic signaling pathways primarily the PI3K-Akt signaling pathway. This pathway is essential for cell survival and growth where Flt3L aids in transmitting growth signals necessary for hematopoietic cells. Flt3L also interacts with proteins such as FLT3 receptor and influences the downstream signaling cascade affecting cell fate decisions in hematopoiesis and immune cell maturation.
Associated diseases and disorders	Flt3 ligand is connected to leukemia particularly acute myeloid leukemia (AML) due to dysregulation of the FLT3 signaling pathway. Mutations in the FLT3 receptor can lead to uncontrolled cell proliferation contributing to tumorigenesis. Additionally Flt3L plays a role in autoimmune disorders by influencing immune cell development. It is closely connected with the FLT3 receptor and other tyrosine kinases which when mutated can exacerbate disease pathology through abnormal cell signaling and proliferation.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

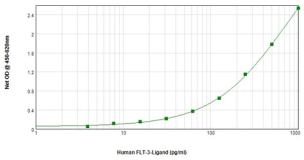
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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1 product image



Sandwich ELISA - Anti-Flt3 ligand/Flt3L antibody (ab9688)

To detect human Flt3 ligand/Flt3L by sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.25 – 1.0 µg/ml of ab84261 is required. This biotinylated polyclonal antibody, in conjunction with an anti-Human Flt3-ligand (ab9688) as a capture antibody, allows the detection of at least 0.2 – 0.4 ng/well of recombinant human Flt3 ligand/Flt3L.

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