FLT3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Flt3, Polyclonal Antibody
Full Product Name	Flt3, NT (Flt3, Flk-2, Flt-3, Receptor-type tyrosine-protein kinase FLT3, FL cytokine receptor, Fetal liver kinase 2, Fms-like tyrosine kinase 3, Tyrosine-protein kinase receptor flk-2, CD135) (MaxLight 650)
Product Gene Name	anti-Flt3 antibody
Product Synonym Names	Flt3; Flk-2; Flt-3; Receptor-type tyrosine-protein kinase FLT3; FL cytokine receptor; Fetal liver kinase 2; Fms-like tyrosine kinase 3; Tyrosine-protein kinase receptor flk-2; CD135
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	112,640 Da
3D Structure	ModBase 3D Structure for Q00342
Immunogen	Mouse Flt3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 153-181 amino acids from the N-terminal region of Mouse Flt3.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-Flt3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Flt3 antibody	Western Blot (WB), FLISA
Application Notes for anti-Flt3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-Flt3 antibody	MBS6299453 is an antibody targeting Flt3. Also known as Flt3, NT (Flt3, Flk-2, Flt-3, Receptor-type tyrosine-protein kinase FLT3, FL cytokine receptor, Fetal liver kinase 2, Fms-like tyrosine kinase 3, Tyrosine-protein kinase receptor flk-2, CD135) (MaxLight 650). Reactive in Mouse. Host: Rabbit. Flt3 is a receptor for the FL cytokine. Has a tyrosine-protein kinase activity.
Product References and Citations for anti-Flt3 antibody	Rathinam, C., et al. Cancer Cell 18(4):341-352(2010). DeBoy, C.A., et al. Exp. Mol. Pathol. 89(2):109-116(2010). Mkonyi, L.E., et al. Am. J. Physiol. Heart Circ. Physiol. 299 (2), H275-H283 (2010): Carotta, S., et al. Immunity 32(5):628-641(2010). Eidenschenk, C., et al. Proc. Natl. Acad. Sci. U.S.A. 107(21):9759-9764(2010).
Other Notes	Small volumes of anti-Flt3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Flt3. It may not necessarily be applicable to this product.

NCBI GI #	122937353
NCBI GeneID	14255
NCBI Accession #	NP_034359.2
UniProt Primary Accession #	Q00342
UniProt Related Accession #	Q00342
GenBank Nucleotide #	NM_010229.2
NCBI Official Full Name	receptor-type tyrosine-protein kinase FLT3
NCBI Official Synonym Full Names	FMS-like tyrosine kinase 3
NCBI Official Symbol	Flt3
NCBI Official Synonym Symbols	Flk2; Ly72; wmfl; CD135; Flk-2; Flt-3; B230315G04
UniProt Protein Name	Receptor-type tyrosine-protein kinase FLT3
UniProt Synonym Protein Names	FL cytokine receptor; Fetal liver kinase 2; FLK-2; Fms-like tyrosine kinase 3; FLT-3; Tyrosine-protein kinase receptor flk-2; CD_antigen: CD135
Protein Family	Receptor-type tyrosine-protein kinase
UniProt Gene Name	Flt3
UniProt Synonym Gene Names	Flk-2; Flt-3; FLK-2; FLT-3
UniProt Entry Name	FLT3_MOUSE
NCBI Protein Information	receptor-type tyrosine-protein kinase FLT3; FL cytokine receptor; fetal liver kinase 2; tyrosine-protein kinase receptor flk-2
UniProt Comments for Flt3	**Function:** Tyrosine-protein kinase that acts as cell-surface receptor for the cytokine FLT3LG and regulates differentiation, proliferation and survival of hematopoietic progenitor cells and of dendritic cells. Promotes phosphorylation of SHC1 and AKT1, and activation of the downstream effector MTOR. Promotes activation of RAS signaling and phosphorylation of downstream kinases, including MAPK1/ERK2 and/or MAPK3/ERK1. Promotes phosphorylation of FES, FER, PTPN6/SHP, PTPN11/SHP-2, PLCG1, and STAT5A and/or STAT5B. Activation of wild-type FLT3 causes only marginal activation of STAT5A or STAT5B. Mutations that cause constitutive kinase activity promote cell proliferation and resistance to apoptosis via the activation of multiple signaling pathways.5 PublicationsManual assertion based on experiment in:Ref.5 **Catalytic activity:** ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.1 PublicationManual assertion based on experiment in:Ref.10 **Enzyme regulation:** Present in an inactive conformation in the absence of bound ligand. FLT3LG binding leads to dimerization and activation by autophosphorylation.1 PublicationManual assertion based on experiment in:Ref.10
Research Articles on Flt3	**1.** expression of trFlt3 in p53/NHEJ mutant hematopoietic progenitor cells promoted development of clinically aggressive B-cell leukemia
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