

Mouse Anti-FLK2/Flt3/CD135 [MD103]: MC0583, MC0583RTU7

Intended Use: For Research Use Only

Description: Stem cell tyrosine kinase (STK-1) has been cloned from a CD34+ hematopoietic stem cell enriched library and identified as the human homolog of a previously identified gene of Mouse origin designated either Flk-2 or Flt-3. The STK-1 cDNA encodes a protein of 993 amino acids with 85% identity to Flt-3/Flk-2. STK-1 is a member of the type III receptor tyrosine kinase family that includes Kit (steel factor receptor), Fms and PDGF. STK-1 expression in blood and marrow is restricted to CD34+ cells, a population greatly enriched for hematopoietic stem/progenitor cells. STK-1 antiserum recognizes two polypeptides in these cells. The Mouse homolog of STK-1, designated Flt-3/Flk-2, is expressed at high levels in hematopoietic cells and also in neural, gonadal, hepatic and placental tissues. It has been suggested that STK-1 and its murine homolog Flt-3/Flk-2 may function as growth factor receptors on hematopoietic stem and/or progenitor cells.

Specifications:

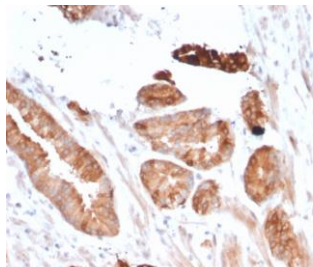
Clone: MD103
Source: Mouse
Isotype: IgG2b/k
Reactivity: Human
Immunogen: Recombinant full-length human FLT3 protein
Localization: Membrane
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC
Package:

Description	Catalog No.	Size
FLK2/Flt3/CD135 Concentrated	MC0583	1 ml
FLK2/Flt3/CD135 Prediluted	MC0583RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Cervical ca, breast ca.
Concentrated Dilution: 50-200
Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human breast carcinoma stained with anti-FLK2/CD135 using DAB

References:

1. A personalized platform identifies trametinib plus zoledronate for a patient with KRAS-mutant metastatic colorectal cancer. Bangi E, et al. Sci Adv 5:eaav6528, 2019.
2. Murine germinal center B cells require functional Fms-like tyrosine kinase 3 signaling for IgG1 class-switch recombination. Svensson MN, et al. Proc Natl Acad Sci U S A 112:E6644-53, 2015.

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Rev. B