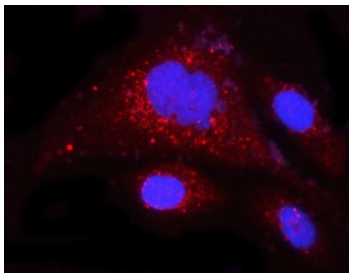
Myeloid cell leukemia 1 Antibody / MCL1 (RQ8096)

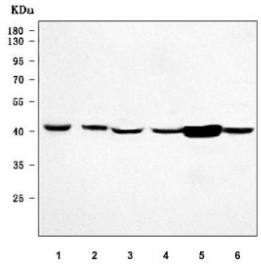
Catalog No.	Formulation	Size
RQ8096	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

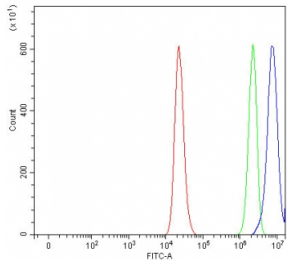
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q07820
Localization	Cytoplasmic, nuclear
Applications	Western blot: 0.5-1ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This Myeloid cell leukemia 1 antibody is available for research use only.



Immunofluorescent staining of FFPE human PC-3 cells with Myeloid cell leukemia 1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human Raji, 2) human Ramos, 3) human MCF7, 4) human K562, 5) rat stomach and 6) rat kidney tissue lysate with Myeloid cell leukemia 1 antibody. Predicted molecular weight ~37 kDa.



Flow cytometry testing of fixed and permeabilized human RT4 cells with Myeloid cell leukemia 1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Myeloid cell leukemia 1 antibody.

Description

MCL1, also known as myeloid cell leukemia 1, is a protein that in humans is encoded the MCL1 gene. It is mapped to 1q21.3. MCL1 is a potent multidomain antiapoptotic protein of the BCL2 family that heterodimerizes with other BCL2 family members to protect against apoptotic cell death. MCL1 as an attractive candidate for regulation of hematopoietic stem cell homeostasis that is highly expressed in hematopoietic stem cells and regulated by growth factor signals. MCL1 is a critical and specific regulator essential for ensuring the homeostasis of early hematopoietic progenitors. During mitotic arrest, MCL1 protein levels decline markedly, through a posttranslational mechanism, potentiating cell death. Phosphorylation of MCL1 directs its interaction with the tumor suppressor protein FBW7, which is the substrate-binding component of a ubiquitin ligase complex.

Application Notes

Optimal dilution of the Myeloid cell leukemia 1 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids E109-E325) was used as the immunogen for the Myeloid cell leukemia 1 antibody.

Storage

After reconstitution, the Myeloid cell leukemia 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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