

CD59 monoclonal antibody, clone YUK1

Catalog # MAB1719

Size 50 ug

Specification

Product Description	Mouse monoclonal antibody raised against native CD59.
Immunogen	Native purified from human cancer cel line.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1, kappa
Quality Control Testing	Antibody Reactive Against CD59.
Recommend Usage	Flow Cyt (5-10 ug/mL) Immunoprecipitation (5-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.1% proclin, 2.0% Block Ace)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunoprecipitation
- Flow Cytometry

Gene Info — CD59

Entrez GeneID [966](#)

Gene Name	CD59
Gene Alias	16.3A5, 1F5, EJ16, EJ30, EL32, FLJ38134, FLJ92039, G344, HRF-20, HRF20, MAC-IP, MAC1 F, MEM43, MGC2354, MIC11, MIN1, MIN2, MIN3, M1RL, MSK21, p18-20
Gene Description	CD59 molecule, complement regulatory protein
Omim ID	107271
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a cell surface glycoprotein that regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This protein is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. This protein also plays a role in signal transduction pathways in the activation of T cells. Mutations in this gene cause CD59 deficiency, a disease resulting in hemolytic anemia and thrombosis, and which causes cerebral infarction. Multiple alternatively spliced transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq]
Other Designations	20 kDa homologous restriction factor CD59 antigen CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344) CD59 glycoprotein Ly-6-like protein T cell-activating protein human leukocyte antigen MIC11 lymphocytic a

Publication Reference

- [Complement susceptibility in glutamine deprived breast cancer cells.](#)

Ellison BS, Zanin MK, Boackle RJ.

Cell Division 2007 Jul; 2:20.

Application: Func, Flow Cyt, Func, Human, Bcap37, MCF-7 cells

- [p53 regulates cellular resistance to complement lysis through enhanced expression of CD59.](#)

Donev RM, Cole DS, Sivasankar B, Hughes TR, Morgan BP.

Cancer Research 2006 Feb; 66(4):2451.

Application: WB, WB-Tr, Human, HeLa, IMR32 cells

- [Loss of CD59 expression in breast tumours correlates with poor survival.](#)

Madjd Z, Pinder SE, Paish C, Ellis IO, Carmichael J, Durrant LG.

The Journal of Pathology 2003 Aug; 200(5):633.

Application: IHC-P, Human, Human breast tumours

- [CD59 expressed on a tumor cell surface modulates decay-accelerating factor expression and enhances tumor growth in a rat model of human neuroblastoma.](#)

Chen S, Caragine T, Cheung NK, Tomlinson S.

Cancer Research 2000 Jun; 60(11):3013.

Application: Flow Cyt, Human, LAN-1 cells

- [Expression and function of CD59 on colonic adenocarcinoma cells.](#)

Bjorge L, Vedeler CA, Ulvestad E, Matre R.

European Journal of Immunology 1994 Jul; 24(7):1597.

Application: Flow Cyt, Func, IF, IHC-Fr, WB-Ce, Human, HT-29 cells, Human colon adenocarcinoma

Pathway

- [Complement and coagulation cascades](#)
- [Hematopoietic cell lineage](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Lymphoma](#)
- [Macular Degeneration](#)