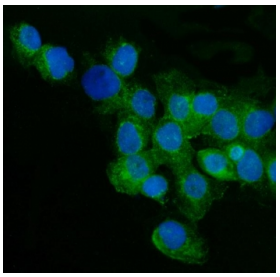
CD59 Antibody (R31963)

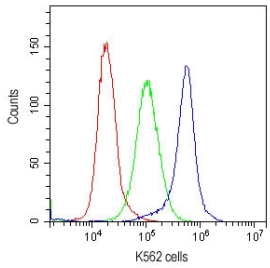
Catalog No.	Formulation	Size
R31963	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

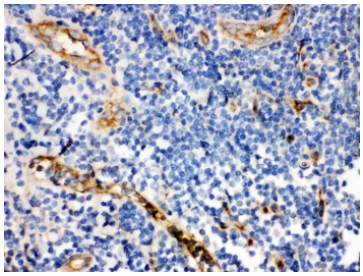
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P13987
Localization	Plasma membrane, cytoplasm
Applications	Immunohistochemistry (FFPE) : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/10^6 cells Western Blot : 1-2ug/ml
Limitations	This CD59 antibody is available for research use only.



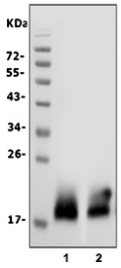
Immunofluorescent staining of FFPE human A431 cells with CD59 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human K562 cells with CD59 antibody at 1ug/10^6 cells; Red=cells alone, Green=isotype control, Blue=CD59 antibody.



IHC testing of FFPE human tonsil with CD59 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Western blot testing of human 1) HeLa and 2) PC-3 cell lysate with CD59 antibody. Expected molecular weight: 14-20 kDa depending on level of glycosylation.

Description

This gene encodes a cell surface glycoprotein that regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. And 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. It 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.

Application Notes

Optimal dilution of the CD59 antibody should be determined by the researcher.

Immunogen

Amino acids 26-102 of human CD59 were used as the immunogen for the CD59 antibody.

Storage

After reconstitution, the CD59 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.