

## Product datasheet

### anti-CD59 mouse monoclonal, Bra10G, purified

#### Short overview

<b>Cat. No.</b>	691597
<b>Quantity</b>	1 ml (100 µg/ml)
<b>Concentration</b>	100 µg/ml

#### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG2b kappa
<b>Clone</b>	Bra10G
<b>Immunogen</b>	K-562 leukemia cells
<b>Formulation</b>	PBS with 0.02% sodium azide
<b>UniprotID</b>	P13987 (Human)
<b>Synonym</b>	CD59 glycoprotein, 1F5 antigen, 20 kDa homologous restriction factor, HRF-20, HRF20, MAC-inhibitory protein, MAC-IP, MEM43 antigen, Membrane attack complex inhibition factor, MACIF, Membrane inhibitor of reactive lysis, MIRL, Protectin, CD antigen CD59, CD59, MIC11, MIN1, MIN2, MIN3, MSK21
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	2-8°C
<b>Intended use</b>	Research use only
<b>Application</b>	FACS, ICC/IF, IHC
<b>Reactivity</b>	Human

#### Applications

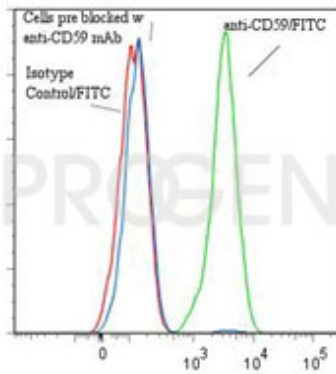
<b>Flow Cytometry (FACS)</b>	0.5-1.0 µg/million cells in 0.1 ml
<b>Immunocytochemistry (ICC)</b>	1:100-1:200 (0.5-1.0 µg/ml)
<b>Immunohistochemistry (IHC) - frozen</b>	1:50-1:100 (1-2 µg/ml)

#### Background

CD59, or protectin, is a 18-22 kDa cell surface molecule on a GPI anchor. It regulates complement-mediated cell lysis and is supposed to protect normal and tumor cells from cytotoxic attack by homologous complement through binding to C8 and C9. CD59 is expressed on leukocytes, vascular epithelium, a variety of epithelial cells and placenta. B-cells express low levels. The expression of CD59 on erythrocytes is important for their survival. Genetic defects in GPI-anchor attachment, that cause a reduction or loss of CD59 and CD55 on erythrocytes produce the symptoms of the disease Paroxysmal nocturnal hemoglobinuria (PNH). Bra10G was typed at the Vth International Workshop on human leucocyte differentiation antigens.

Positive control: Daudi, CEM, K562, HPB-ALL, Jurkat, Raji, human lymphocytes, human lymph node and tonsil.

## Product images



FACS with HPB-MLT cells