

Anti-CD38 Antibody (4G658)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4G658
Purification:	Protein A

Applications

Verified Activity:	<p>1. Anti-CD38 rabbit monoclonal antibody at 1:1000 dilution.</p> <ul style="list-style-type: none">-Lane A: Jurkat Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.-Developed using the Odyssey technique.-Performed under reducing conditions.-Predicted band size:34 kDa.-Observed band size:50 kDa. <p>2. CD38 was immunoprecipitated using:</p> <ul style="list-style-type: none">-Lane A:0.5 mg Jurkat Whole Cell Lysate.-4µL anti-CD38 rabbit monoclonal antibody and 60 µg of Immunomagnetic beads Protein A/G.-Primary antibody:-Anti-CD38 rabbit monoclonal antibody, at 1:100 dilution.-Secondary antibody:-Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution.-Developed using the ECL technique.-Performed under reducing conditions.-Predicted band size: 45 kDa.-Observed band size:45 kDa
Application:	ELISA,IP,WB
Recommended	WB: 1:2000-1:10000; ELISA: 1:5000-1:10000; IP: 1-5 µL/mg of lysate

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human CD38 protein (TMPY-01023)
Antigen Species: Human
Synonyms: T10;ADPRC1;CD38 molecule;ADPRC 1
Biology Area: Cancer Drug Targets

Research Background

The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alter the behavior of the cell. Some CD proteins do not take part in cell signal process but have other functions such as cell adhesion. Cluster of differentiation 38 (CD38), also known as ADP-ribosyl cyclase, is a glycoprotein found on the surface of many immune cells (white blood cells), including CD4+, CD8+, B and natural killer cells. It shares several characteristics with ADP-ribosyl cyclase 2 CD157. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD⁺ to ADP-ribose. It also functions in cell adhesion, signal transduction and calcium signaling. CD38 has been used as a prognostic marker in leukemia. It can also be used to identify plasma cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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