

ARG23187 anti-CD63 antibody [CC25]

Package: 50 µg

Store at: -20°C

Summary

Product Description	<p>Mouse Monoclonal antibody [CC25] recognizes CD63</p> <p>Mouse anti Bovine CD63 antibody, clone CC25 recognizes the bovine homologue of human CD63, a 237 amino acid multipass transmembrane glycoprotein and member of the tetraspanin TM4SF protein family with a predicted molecular weight of ~26 kDa. CD63 is also known as lysosome associated membrane glycoprotein 3 or LAMP-3. CD63 along with other TM4SF members including CD9, CD61 and CD151 can form specific interactions with phosphoinositide 4-kinase, suggesting a role for CD63 in the recruitment of phosphoinositide 4-kinase to specific membrane sites (Yauch and Hemler 2000). CD63 is expressed on the cell surface of platelets and basophils, along with activated macrophages, monocytes and granulocytes. Mouse anti Bovine CD63, clone CC25 acts as a specific marker for bovine lysosomes and has been used for the identification and quantitation of phagosome-lysosome fusion in models of bacterial insult (Souza et al. 2013).</p>
Tested Reactivity	Bov
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	CC25
Isotype	IgG1
Target Name	CD63
Species	Bovine
Conjugation	Un-conjugated
Alternate Names	Tspan-30; CD63 antigen; Tetraspanin-30; CD antigen CD63; Lysosomal-associated membrane protein 3; OMA81H; Ocular melanoma-associated antigen; Granulophysin; TSPAN30; Melanoma-associated antigen ME491; MLA1; LAMP-3; ME491

Application Instructions

Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>FACS</td><td>1:10 - 1:25</td></tr> </table>	Application	Dilution	FACS	1:10 - 1:25
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Application Note	<p>FACS: Use 10 µl of the suggested working dilution to label 10⁶ cells in 100 µl.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>				

Properties

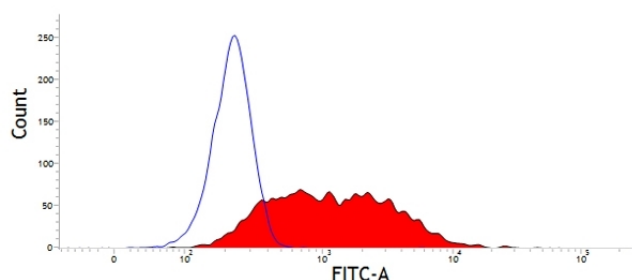
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 0.09% Sodium azide.
Preservative	0.09% Sodium azide

Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CD63
Gene Full Name	CD63 molecule
Background	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The encoded protein is a cell surface glycoprotein that is known to complex with integrins. It may function as a blood platelet activation marker. Deficiency of this protein is associated with Hermansky-Pudlak syndrome. Also this gene has been associated with tumor progression. Alternative splicing results in multiple transcript variants encoding different protein isoforms. [provided by RefSeq, Apr 2012]
Function	Functions as cell surface receptor for TIMP1 and plays a role in the activation of cellular signaling cascades. Plays a role in the activation of ITGB1 and integrin signaling, leading to the activation of AKT, FAK/PTK2 and MAP kinases. Promotes cell survival, reorganization of the actin cytoskeleton, cell adhesion, spreading and migration, via its role in the activation of AKT and FAK/PTK2. Plays a role in VEGFA signaling via its role in regulating the internalization of KDR/VEGFR2. Plays a role in intracellular vesicular transport processes, and is required for normal trafficking of the PMEL luminal domain that is essential for the development and maturation of melanocytes. Plays a role in the adhesion of leukocytes onto endothelial cells via its role in the regulation of SELP trafficking. May play a role in mast cell degranulation in response to Ms4a2/FcεRI stimulation, but not in mast cell degranulation in response to other stimuli. [UniProt]
Calculated Mw	26 kDa
PTM	Palmitoylated at a low, basal level in unstimulated platelets. The level of palmitoylation increases when platelets are activated by thrombin (in vitro). [UniProt]

Images



ARG23187 anti-CD63 antibody [CC25] FACS image

Flow Cytometry: Bovine peripheral blood lymphocytes stained with ARG23187 anti-CD63 antibody [CC25] followed by Goat anti Mouse IgG (FITC).