ARG65410
anti-CD138 / Syndecan 1 antibody [B-A38] (azide free)

Package: 50 µg
Store at: -20°C

Summary

Product Description	Azide free Mouse Monoclonal antibody [B-A38] recognizes CD138 / Syndecan 1
Tested Reactivity	Hu, Ms
Predict Reactivity	Gpig, Rat
Tested Application	FACS, ICC/IF, IHC-Fr, IHC-P
Specificity	The antibody BA38 recognizes CD138 (syndecan 1), a heparan sulfate proteoglycan protein expressed mainly in the epidermis and plasma cells, but also in growth factorstimulated lymphocytes. The MWs of the glycosylated CD138 were variety, and MW of the non-glycosylated core protein (dimmer form) was around 60-80 kda.
Host	Mouse
Clonality	Monoclonal
Clone	B-A38
Isotype	IgG1
Target Name	CD138 / Syndecan 1
Species	Human
Immunogen	U266 human peripheral blood myeloma cell line
Conjugation	Un-conjugated
Alternate Names	CD antigen CD138; syndecan; CD138; SDC; Syndecan-1; SYND1

Application Instructions

Application table

Application	Dilution
FACS	3-5 µg/ml
ICC/IF	1:10 - 1:500
IHC-Fr	1:50 - 1:500
IHC-P	1:50 - 1:500

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

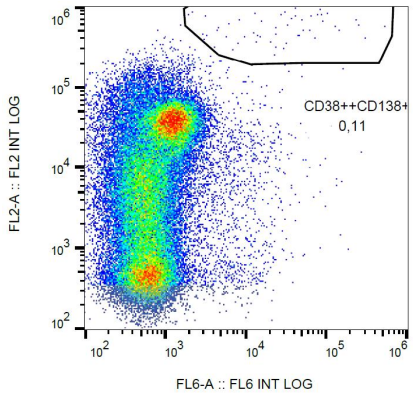
Form	Liquid
Purification	Purification with Protein A.
Purification Note	0.2 µm filter sterilized.
Purity	> 95% (by SDS-PAGE)

Buffer	PBS (pH 7.4)
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

Database links	GeneID: 20969 Mouse GeneID: 6382 Human Swiss-port # P18827 Human Swiss-port # P18828 Mouse
Gene Symbol	SDC1
Gene Full Name	syndecan 1
Background	CD138 (syndecan 1) is a transmembrane proteoglycan that can bind a variety of cytokines and modulate their activity, as well as the activity of extracellular matrix components and influence many developmental processes. CD138 is expressed mainly in differentiating keratinocytes and is transiently upregulated in all layers of the epidermis upon tissue injury. It is also highly expressed on plasma cells and can be detected even on fibroblasts, vascular smooth muscle cells and endothelial cells. Up-regulation and down-regulation of CD138 on the cell surface often correlates with the gain of cancerous characteristics. Serum levels of the shedded soluble sCD138 are used as a prognostic factor of cancerogenesis.
Function	Cell surface proteoglycan that bears both heparan sulfate and chondroitin sulfate and that links the cytoskeleton to the interstitial matrix. [UniProt]
Research Area	Cancer antibody; Developmental Biology antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	32 kDa
PTM	Shedding is enhanced by a number of factors such as heparanase, thrombin or EGF. Also by stress and wound healing. PMA-mediated shedding is inhibited by TIMP3.

Images



ARG65410 anti-CD138 / Syndecan 1 antibody [B-A38] (azide free) FACS image

Flow Cytometry: Human peripheral blood stained with ARG65410 anti-CD138 / Syndecan 1 antibody [B-A38] (azide free), followed by incubation with APC labelled Goat anti-Mouse secondary antibody.