ARG62945
anti-CD9 antibody [IVA50]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [IVA50] recognizes CD9
Tested Reactivity	Bov
Tested Application	FACS, FuncSt, IP, WB
Specificity	The clone IVA50 reacts with CD9 antigen (bovine), a 24 kDa single transmembrane polypeptide expressed on platelets, monocytes, pre-B lymphocytes, granulocytes and activated T lymphocytes.
Host	Mouse
Clonality	Monoclonal
Clone	IVA50
Isotype	IgG2
Target Name	CD9
Immunogen	Bovine thrombocytes.
Conjugation	Un-conjugated
Alternate Names	Leukocyte antigen MIC3; BTCC-1; TSPAN-29; MIC3; Tetraspanin-29; p24; Cell growth-inhibiting gene 2 protein; CD9 antigen; MRP-1; DRAP-27; 5H9 antigen; CD antigen CD9; TSPAN29; Motility-related protein; Tspan-29

Application Instructions

Application table

Application	Dilution
FACS	Assay-dependent
FuncSt	Assay-dependent
IP	Assay-dependent
WB	1 µg/ml

Application Note

Functional studies: The clone IVA50 activates Bovine thrombocytes.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

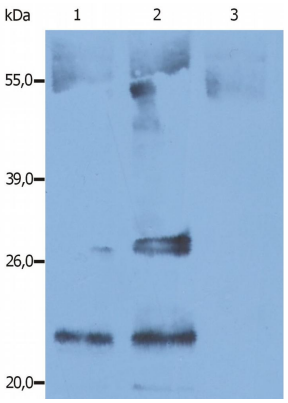
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide

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

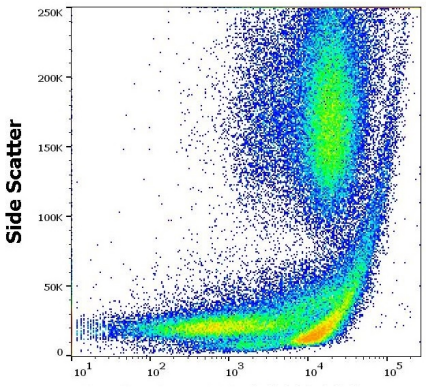
Database links	GeneID: 280746 Bovine Swiss-port # P30932 Bovine
Gene Symbol	CD9
Gene Full Name	CD9 molecule
Background	This gene encodes a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Tetraspanins are cell surface glycoproteins with four transmembrane domains that form multimeric complexes with other cell surface proteins. The encoded protein functions in many cellular processes including differentiation, adhesion, and signal transduction, and expression of this gene plays a critical role in the suppression of cancer cell motility and metastasis. [provided by RefSeq, Jan 2011]
Function	Involved in platelet activation and aggregation. Regulates paranodal junction formation. Involved in cell adhesion, cell motility and tumor metastasis. Required for sperm-egg fusion (By similarity). [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody
Calculated Mw	25 kDa
PTM	Palmitoylated at a low, basal level in unstimulated platelets. The level of palmitoylation increases when platelets are activated by thrombin (in vitro). The protein exists in three forms with molecular masses between 22 and 27 kDa, and is known to carry covalently linked fatty acids.

Images



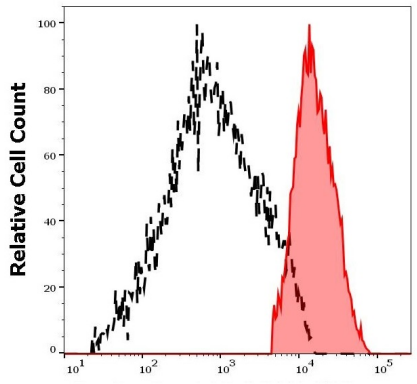
ARG62945 anti-CD9 antibody [IVA50] IP image

Immunoprecipitation: Biotin-labeled human platelets lysates was immunoprecipitated with 1) ARG62945 anti-CD9 antibody [IVA50], 2) anti-Human CD9 control antibody, and 3) negative control.



ARG62945 anti-CD9 antibody [IVA50] FACS image

Flow Cytometry: Bovine peripheral whole blood stained with ARG62945 anti-CD9 antibody [IVA50] at 10 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG62945 anti-CD9 antibody [IVA50] FACS image

Flow Cytometry: Separation of bovine CD9 positive thrombocytes (red-filled) from lymphocytes (black-dashed). Bovine peripheral whole blood stained with ARG62945 anti-CD9 antibody [IVA50] at 10 µg/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.