

CD49f Antibody | anti-CD49f antibody

Anti-CD49f Purified

CATALOG #	REACTIVITY	APPLICATIONS
AAA129241	Non-human primates, Horse, Pig, Rabbit, Cow, Dog, Cat, Human, Sheep, Mouse	Immunohistochemistry, Immunoprecipitation, Immunocytochemistry, Flow Cytometry, Functional Assay

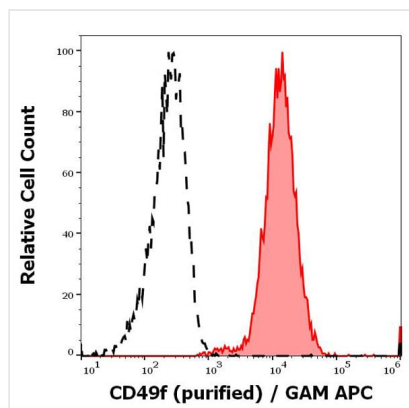
PRODUCT SYNONYMS

CD49f; Anti-CD49f Purified; integrin subunit alpha 6; ITGA6; VLA6alpha; platelet gpIc; anti-CD49f antibody

PRODUCT SPECIFICATIONS

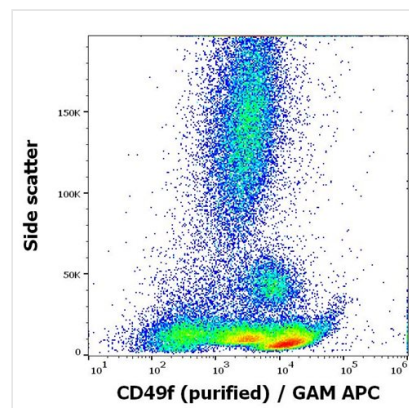
Reactivity	Non-human primates, Horse, Pig, Rabbit, Cow, Dog, Cat, Human, Sheep, Mouse
Isotype	Rat IgG2a
Clone Number	GoH3
Specificity	The rat monoclonal antibody GoH3 recognizes an extracellular epitope of CD49f, an alpha6 integrin subunit.
Form/Format	Purified Purified by protein-G affinity chromatography. Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD49f antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry)
Immunogen	mouse mammary tumor cells
Preparation and Storage	Store at 2-8 degree C. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human blood thrombocytes stained using anti-CD49f (GoH3) purified antibody (concentration in sample 1,7 ?g/ml, GAM APC, red-filled) from blood thrombocytes unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD49f (GoH3) purified antibody (concentration in sample 1,7 ?g/ml, GAM APC).

ADDITIONAL INFORMATION

Related Product Information for anti-CD49f antibody	CD49f (alpha 6 integrin) is a type I transmembrane glycoprotein, which noncovalently associates with CD29 (beta 1 integrin) to form VLA-6, and with CD104 (beta 4 integrin) to form alpha6/beta4 integrin complex. CD49f is expressed on platelets, megakaryocytes, monocytes, T cells and thymocytes. It is widely expressed on many cultured adherent cell lines and on epithelia in non-lymphoid tissues. It is important for adhesion to laminins, invasin, and merosin, hence also for cell migration, embryogenesis, metastasis, formation of hemidesmosomes in epithelia, and other processes.
References	*Martignani E, Ala U, Sheehy PA, Thomson PC, Baratta M: Whole transcriptome analysis of bovine mammary progenitor cells by P-Cadherin enrichment as a marker in the mammary cell hierarchy. Comparative Study Sci Rep. 2020 Aug 25;10(1):14183., URL: https://pubmed.ncbi.nlm.nih.gov/32843665/, *Knapp DJ, Hammond CA, Aghaepour N, Miller PH, Pellacani D, Beer PA, Sachs K, Qiao W, Wang W, Humphries RK, Sauvageau G, Zandstra PW, Bendall SC, Nolan GP, Hansen C, Eaves CJ: Distinct signaling programs control human hematopoietic stem cell survival and proliferation. Blood 2017 Jan 19;129(3):307-318, URL: https://pubmed.ncbi.nlm.nih.gov/27827829/, *Karthaus WR, laquinta PJ, Drost J, Gracanin A, van Boxtel R, Wongvipat J, Dowling CM, Gao D, Begthel H, Sachs N, Vries RGJ, Cuppen E, Chen Y, Sawyers CL, Clevers HC: Identification of multipotent luminal progenitor cells in human prostate organoid cultures. Cell 2014 Sep 25;159(1):163-175., URL: https://pubmed.ncbi.nlm.nih.gov/25201529/, *Ikeda A, Yamamoto T, Mineshiba J, Takashiba S: Follistatin expressed in mechanically-damaged salivary glands of male mice induces proliferation of CD49f + cells. Sci Rep. 2020 Nov 17;10(1):19959., URL: https://pubmed.ncbi.nlm.nih.gov/33203957/, *Quardokus EM, Saunders DC, McDonough E, Hickey JW, Werlein C, Surrette C, Rajbhandari P, Martinez Casals A, Tian H, Lowery L, Neumann EK, Björklund F, Neelakantan TV, Croteau J, Wiblin AE, Fisher J, Livengood AJ, Dowell KG, Silverstein JC, Spraggins JM, Pryhuber GS, Deutsch G, Ginty F, Nolan GP, Melov S, Jonigk D, Caldwell MA, Vlachos IS, Mueller W, Gehlenborg N, Stockwell BR, Lundberg E, Snyder MP, Germain RN, Camarillo JM, Kelleher NL, Börner K, Radtke AJ: Organ mapping antibody panels: a community resource for standardized multiplexed tissue imaging. Nat Methods 2023 Aug;20(8):1174-1178. doi: 10.1038/s41592-023-01846-7., URL: https://pubmed.ncbi.nlm.nih.gov/37468619/,

NCBI AND UNIPROT INFORMATION

NCBI GI #	119395742
NCBI GeneID	3655
NCBI Accession #	NP_000201.2
NCBI GenBank Nucleotide #	NM_000210.2
UniProt Accession #	P23229 ; Q08443 ; Q0MRC7 ; Q14646 ; Q16508 ; Q53RX7 ; Q59HB7 ; Q86VL6 ; B2RMU9 ; B4DG69 ; B4DKB8 ; C4AM96
Molecular Weight	126,633 Da
NCBI Official Full Name	integrin alpha-6 isoform b
NCBI Official Synonym Full Names	integrin, alpha 6
NCBI Official Symbol	ITGA6
NCBI Official Synonym Symbols	CD49f; VLA-6; ITGA6B
NCBI Protein Information	integrin alpha-6; integrin alpha6B; CD49 antigen-like family member F
UniProt Protein Name	Integrin alpha-6
UniProt Gene Name	ITGA6
UniProt Entry Name	ITA6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cat-cow-dog-horse-human-mouse-pig-primate-rabbit-sheep-antibody/cd49f/129241>