

Mouse anti-Dog, Human CD42a Antibody | anti-CD42a antibody

Anti-Hu CD42a PE-Cy7

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129349	Mouse	Dog, Human	Flow Cytometry, Functional Assay

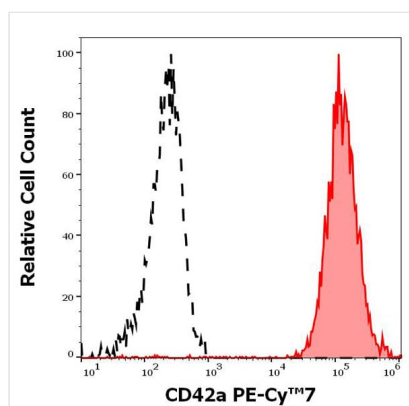
PRODUCT SYNONYMS

CD42a; Anti-Hu CD42a PE-Cy7; glycoprotein IX platelet; GPIX; GP9; anti-CD42a antibody

PRODUCT SPECIFICATIONS

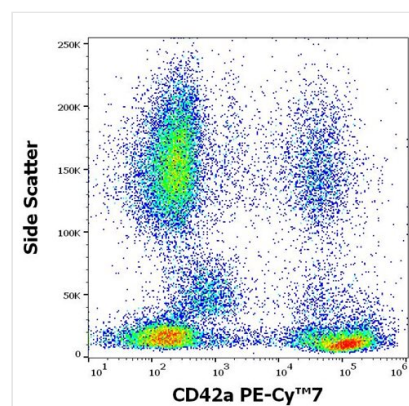
Host	Mouse
Reactivity	Dog, Human
Isotype	Mouse IgG1
Clone Number	GR-P
Specificity	The mouse monoclonal antibody GR-P (also known as GRP-P) recognizes an extracellular epitope of CD42a (glycoprotein 9), a 22 kDa transmembrane protein constitutively expressed on megakaryocytes and platelets.
Purity/Purification	Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Applicable Applications for anti-CD42a antibody	FCM/FACS (Flow Cytometry)
Immunogen	Human acute lymphoblastic leukemia cells
Conjugation	PE-Cy7
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human CD45 negative CD42a positive platelets (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD42a (GR-P) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD42a (GR-P) PE-Cy7 antibody (4ul reagent/100ul of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD42a antibody	CD42a, also known as glycoprotein 9 (GPIX), composes together with GPIb alpha, GPIb beta and GPV the GPIb-IX-V receptor complex critical in the process of platelet-rich thrombus formation by tethering the platelet to a thrombogenic surface. CD42b binds to von Willebrand factor (VWF) exposed at a site of vascular injury, as well as to thrombin, coagulation factors XI and XII, high molecular weight kininogen, TSP-1, integrin Mac-1 and P-selectin. Defects in the gene encoding CD42a are a cause of Bernard-Soulier syndrome, also known as giant platelet disease. These patients have unusually large platelets and have a clinical bleeding tendency.
References	*Brown SB, Clarke MC, Magowan L, Sanderson H, Savill J: Constitutive death of platelets leading to scavenger receptor-mediated phagocytosis. A caspase-independent cell clearance program. J Biol Chem. 2000 Feb 25;275(8):5987-96., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=brown+sb+clarke+mc+magowan+l ,*Vettore S, Scandellari R, Moro S, Lombardi AM, Scapin M, Randi ML, Fabris F: Novel point mutation in a leucine-rich repeat of the GPIbalpha chain of the platelet von Willebrand factor receptor, GPIb/IX/V, resulting in an inherited dominant form of Bernard-Soulier syndrome affecting two unrelated families: the N41H variant. Haematologica. 2008 Nov;93(11):1743-7., URL: http://www.ncbi.nlm.nih.gov/pubmed/18815197 ,*Din JN, Aftab SM, Jubb AW, Carnegie FH, Lyall K, Sarma J, Newby DE, Flapan AD: Effect of moderate walnut consumption on lipid profile, arterial stiffness and platelet activation in humans. Eur J Clin Nutr. 2011 Feb;65(2):234-9., URL: http://www.ncbi.nlm.nih.gov/pubmed/?term=carnegie+fh+lyall+k ,*Harding SA, Din JN, Sarma J, Josephs DH, Fox KA, Newby DE: Promotion of proinflammatory interactions between platelets and monocytes by unfractionated heparin. Heart. 2006 Nov;92(11):1635-8., URL: http://www.ncbi.nlm.nih.gov/pubmed/16709700,

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504077
NCBI GeneID	2815
NCBI Accession #	NP_000165
NCBI GenBank Nucleotide #	NP_000165.1
UniProt Accession #	P14770 ; Q14445 ; Q8N1D1 ; Q92525
Molecular Weight	16.8 kDa (154aa)
NCBI Official Full Name	platelet glycoprotein IX
NCBI Official Synonym Full Names	glycoprotein IX platelet
NCBI Official Symbol	GP9
NCBI Official Synonym Symbols	GPIX; CD42a
NCBI Protein Information	platelet glycoprotein IX
UniProt Protein Name	Platelet glycoprotein IX
UniProt Gene Name	GP9
UniProt Synonym Gene Names	GP-IX; GPIX

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/mouse-dog-human-antibody/cd42a/129349>