ARG62844
anti-CD41 antibody [HIP8]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [HIP8] recognizes CD41
Tested Reactivity	Hu, NHuPrm
Tested Application	CyTOF®-candidate, FACS, IHC-Fr
Specificity	The clone HIP8 reacts with alpha (a) subunit of CD41 (heavy chain; 120 kDa). CD41 is mainly expressed on platelets and megakaryocytes. HIP8 blocks platelet aggregation and completely inhibits ADP-, epinephrine-, and collagen-induced platelet activation, and partially inhibits ristocetin- and thrombin-induced platelet activation. HIP8 is useful in the morphological and physiological studies of platelets and megakaryocytes. HLDA IV; WS Code P 38
Host	Mouse
Clonality	Monoclonal
Clone	HIP8
Isotype	IgG1
Target Name	CD41
Conjugation	Un-conjugated
Alternate Names	GTA; GT; GPalpha IIb; PPP1R93; CD41; BDPLT2; BDPLT16; GP2B; Integrin alpha-IIb; GPIIb; Platelet membrane glycoprotein IIb; HPA3; CD antigen CD41; CD41B

Application Instructions

Application table

Application	Dilution
CyTOF®-candidate	Assay-dependent
FACS	1 - 4 µg/ml
IHC-Fr	Assay-dependent

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

Properties

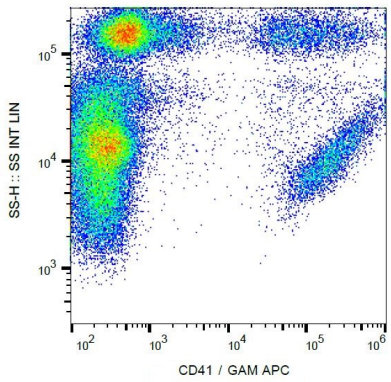
Form	Liquid
Purification	Purified by protein A
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide

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: 3674 Human Swiss-port # P08514 Human
Gene Symbol	ITGA2B
Gene Full Name	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)
Background	CD41 (platelet glycoprotein IIb) is composed of two subunits (120 kDa a, alpha and 23 kDa b, beta) that interact with CD61 in the presence of calcium to form a functional adhesive protein receptor. Upon blood vessel damage, this receptor binds to a variety of proteins including von Willebrand factor, fibrinogen, fibronectin and vitronectin. CD41 is mainly expressed on megakaryocyte-platelet lineage, but generally belongs to the antigens that are expressed during early stages of hematopoietic differentiation.
Function	Integrin alpha-IIb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface. [UniProt]
Highlight	Related products: CD41 antibodies; Anti-Mouse IgG secondary antibodies; Related news: CyTOF-candidate Antibodies
Research Area	Cell Biology and Cellular Response antibody; Developmental Biology antibody; Immune System antibody; Signaling Transduction antibody
Calculated Mw	113 kDa

Images



ARG62844 anti-CD41 antibody [HIP8] FACS image

Flow Cytometry: Human peripheral blood cells stained with ARG62844 anti-CD41 antibody [HIP8], followed by incubation with APC labelled Goat anti-Mouse secondary antibody.