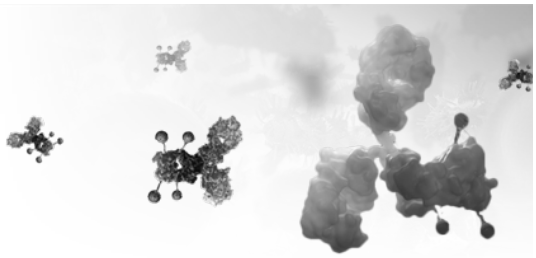

Mouse Anti-Human CD32 (FcγRIIA) Monoclonal antibody, clone IV.3 (CABT-L4325)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The IV.3 monoclonal antibody reacts with human CD32 also known as FcγRII and FCRII, a 40 kDa polymorphic transmembrane glycoprotein and an Ig superfamily member. CD32 is expressed on monocytes/macrophages, granulocytes, platelets and B cells. CD32 enables interaction between Fc γ RII-expressing cells and opsonized antigen or IgG-containing immune complexes. This allows CD32 to function in the activation or inhibition of immune responses including degranulation, phagocytosis, ADCC, cytokine release, and B cell proliferation. The IV.3 antibody has been shown to block the biological effects of CD32 in vitro. Additionally, IV.3 f(ab')2 fragments have been used to block CD32 in vivo in transgenic mice expressing human CD32.
Target	Human CD32 (FcγRIIA)
Immunogen	Human K562 leukemia cell line
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	IV.3
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo FcγRIIA blockade in humanized mice, in vitro FcγRIIA blockade, ELISA, FC
Molecular Weight	150 kDa

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Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Binds to the Fc region of immunoglobulins gamma. Low affinity receptor. By binding to IgG it initiates cellular responses against pathogens and soluble antigens.
Keywords	ARH12;ARHA;H12;ras homolog gene family member A;ras homolog gene family member B;ras homolog gene family member C;Rho cDNA clone 12;RHO12;RHOA;RHOA;rhob;rhoc;RHOH12;Small GTP binding protein RhoA;Transforming protein RhoA;

GENE INFORMATION

Official Symbol	CD32
Synonyms	ARH12; ARHA; H12; ras homolog gene family member A; ras homolog gene family member B; ras homolog gene family member C; Rho cDNA clone 12; RHO12; RHOA; RHOA; rhob; rhoc; RHOH12; Small GTP binding protein RhoA; Transforming protein RhoA;
References	Walsh, T. G., et al. (2015). "SDF-1alpha is a novel autocrine activator of platelets operating through its receptor CXCR4." Cell Signal 27(1): 37-46. PubMed;

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