

alpha 5 beta 1 Integrin Recombinant Antibody

Anti-alpha 5 beta 1 Integrin [M200 (Volociximab)]

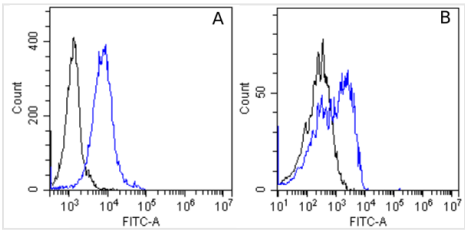
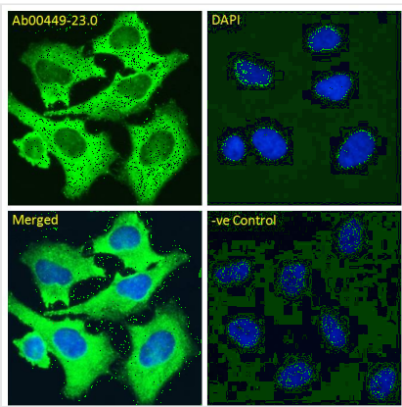
CATALOG # AAA71955	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA
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PRODUCT SYNONYMS

alpha 5 beta 1 Integrin; Anti-alpha 5 beta 1 Integrin [M200 (Volociximab)]; Fibronectin receptor; CD49 antigen-like family member E; Integrin alpha-F; VLA-5; CD49e.; alpha 5 beta 1 Integrin recombinant antibody

PRODUCT SPECIFICATIONS

Reactivity	Human
Isotype	Rabbit IgG, kappa
Clone Number	M200 (Volociximab)
Specificity	The antibody binds to human a5beta1 integrin with a Kd of 0.367 nM (determined by Biacore), an EC50 of 0.2 nM and an IC50 of 2.3 nM.
Purity/Purification	Protein A Affinity Purified
Applicable Applications for alpha 5 beta 1 Integrin recombinant antibody	IHC (Immunohistochemistry), Blocking, IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Buffer Composition	PBS only with 0.02% Proclin 300.
Immunogen	Heterodimeric a5beta1Fc
Chimeric Use Statement	NOT FOR THERAPEUTIC USE - This is a research-grade biosimilar. This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG4 format, for improved compatibility with existing reagents, assays and techniques.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow-cytometry using the anti-alpha 5 beta 1 Integrin M200 (Volociximab) PBMC's (A) and U93 cells (B) were stained with unimmunized rabbit IgG antibody (black line) or the rabbit-chimeric version of M200 (Volociximab) at a concentration of 10 ug/ml for 30 mins at RT. After washing, bound antibody was detected using anti-rabbit IgG JK (FITC-conjugate) antibody (129936) at 2 ug/ml and cells analyzed on a FACSCanto flow-cytometer.

IF (Immunofluorescence)
Immunofluorescence staining of fixed HeLa cells with anti-alpha 5 beta 1 Integrin antibody M200 (Volociximab) Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton stained with the chimeric rabbit IgG version of M200 at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing cytoplasmic and membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and a negative control. The negative control was stained with unimmunized rabbit IgG followed by Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for alpha 5 beta 1 Integrin recombinant antibody	Recombinant monoclonal antibody to alpha 5 beta 1 Integrin. Manufactured using a Recombinant Platform with variable regions (i.e. specificity) from the hybridoma M200 (Volociximab). NOT FOR THERAPEUTIC USE - This is a research-grade biosimilar. This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG4 format, for improved compatibility with existing reagents, assays and techniques.
Product Categories/Family for alpha 5 beta 1 Integrin recombinant antibody	Immunology; Cancer; Angiogenesis; Biosimilar
References	Ramakrishnan et al. Preclinical evaluation of an anti-alpha5beta1 integrin antibody as a novel anti-angiogenic agent. J Exp Ther Oncol. 2006; 5(4):273-86. PMID:17024968

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.