



CD11b Polyclonal Antibody

Catalog No	YP-Ab-17115
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;mult-IHC;ELISA
Gene Name	ITGAM CD11B CR3A
Protein Name	Integrin alpha-M (CD11 antigen-like family member B) (CR-3 alpha chain) (Cell surface glycoprotein MAC-1 subunit alpha) (Leukocyte adhesion receptor MO1) (Neutrophil adherence receptor) (CD antigen CD
Immunogen	Synthetic peptide from human protein at AA range: 280-360
Specificity	The antibody detects endogenous CD11b
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC-p 1:50-200, ELISA 1:10000-20000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Integrin alpha-M (CD11 antigen-like family member B;CR-3 alpha chain;Cell surface glycoprotein MAC-1 subunit alpha;Leukocyte adhesion receptor MO1;Neutrophil adherence receptor;CD antigen CD11b)
Observed Band	
Cell Pathway	Cell membrane ; Single-pass type I membrane protein . Membrane raft ; Single-pass type I membrane protein .
Tissue Specificity	Predominantly expressed in monocytes and granulocytes (PubMed:1346576). Expressed in neutrophils (at protein level) (PubMed:21193407).
Function	disease:Genetic variations in ITGAM has been associated with susceptibility to systemic lupus erythematosus type 6 (SLEB6) [MIM:609939]. Systemic lupus erythematosus (SLE) is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.,domain:The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.,function:Integrin alpha-M/beta-2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin alpha-M/beta-2

**Background**

integrin subunit alpha M(ITGAM) Homo sapiens This gene encodes the integrin alpha M chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as macrophage receptor 1 ('Mac-1'), or inactivated-C3b (iC3b) receptor 3 ('CR3'). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009],

matters needing attention

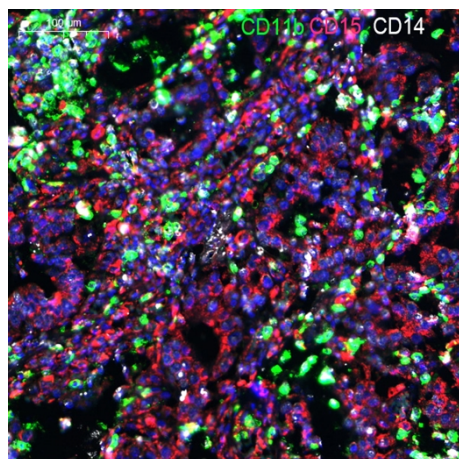
Avoid repeated freezing and thawing!

Usage suggestions

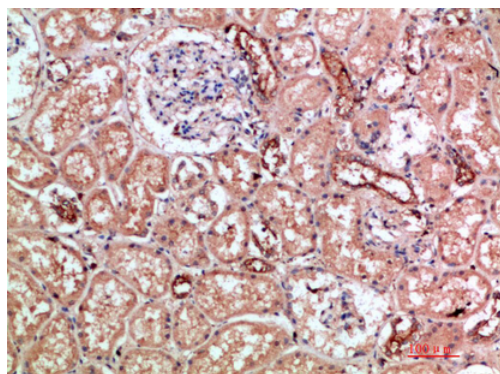
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



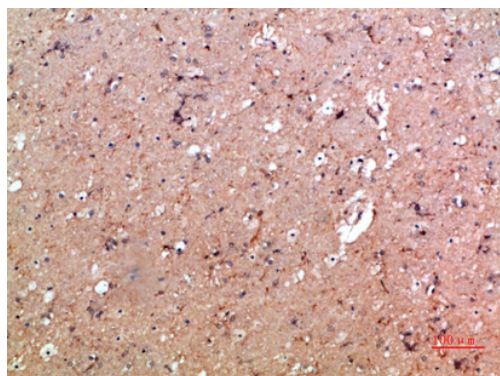
Products Images



Fluorescence multiplex immunohistochemical analysis of normal human gastric cancer tissue (formalin-fixed paraffin-embedded section). The section was incubated in 3 rounds of staining; in the order of CD15 YT0726 (1/50 dilution), CD11b YT5923 (1/50 dilution), CD14 YM6145 (1/50 dilution), each using a separate fluorescent tyramide signal amplification system. Sodium citrate antigen retrieval (Immunoway YS0002, 30 minutes) was used in between rounds of tyramide signal amplification to remove the antibody from the previous round, to avoid any cross-reactivity. DAPI (dark blue) was used as a nuclear counter stain.



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:200