

Rabbit ITGAM Polyclonal Antibody | anti-ITGAM antibody

ITGAM Antibody

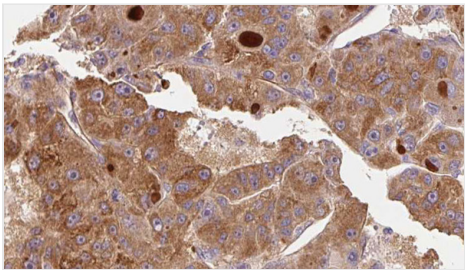
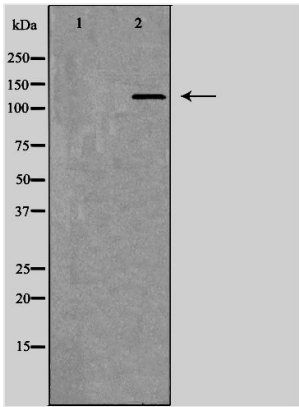
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326244	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ITGAM; Polyclonal Antibody; ITGAM Antibody; antigen CD11b (p170); Antigen CD11b p170; CD11 antigen like family member B; CD11 antigen-like family member B; CD11b; CD11b/CD18; CD49d; Cell surface glycoprotein MAC-1 subunit alpha; Complement component 3 receptor 3 subunit; Complement Component Receptor 3 Alpha; Complement receptor type 3; alpha subunit; CR 3 alpha chain (CR3A); CR 3 alpha chain; CR-3 alpha chain; CR3; CR3A; F730045J24Rik; Integrin Alpha M; Integrin alpha M chain; Integrin alpha-M; Integrin beta 2 alpha subunit; Integrin subunit alpha M; integrin; alpha M (complement component 3 receptor 3 subunit); ITAM_HUMAN; Leukocyte adhesion receptor MO1; Ly-40; MAC 1; Mac-1a; MAC1; Mac1; MAC1A; Macrophage antigen alpha polypeptide; MGC117044; Mo1; MO1A; Neutrophil adherence receptor alpha M subunit; Neutrophil adherence receptor; SLEB6; anti-ITGAM antibody

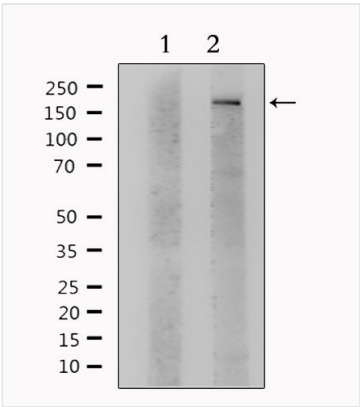
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ITGAM antibody detects endogenous levels of total ITGAM
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1152
Applicable Applications for anti-ITGAM antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ITGAM
Subcellular Location	Plasma Membrane
Tissue Specificity	Predominantly expressed in monocytes and granulocytes (PubMed:1346576). Expressed in neutrophils (at protein level) (PubMed:21193407).
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Bovine (88%), Horse (86%), Sheep (88%), Rabbit (88%), Dog (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326244 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of Mouse spleen lysate, using ITGAM Antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from Hela, using ITGAM Antibody. Lane 1 was treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGAM antibody	Description: ITGAM, also named as CD11B and CR3A, belongs to the integrin alpha chain family. It is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. ITGAM 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. It is also a receptor for fibrinogen, factor X and ICAM1. ITGAM recognizes P1 and P2 peptides of fibrinogen gamma chain. Function: Integrin ITGAM/ITGB2 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 ITGAM/ITGB2 is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain. Regulates neutrophil migration (PubMed:28807980). In association with beta subunit ITGB2/CD18, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed:21193407). May regulate phagocytosis-induced apoptosis in extravasated neutrophils (By similarity). May play a role in mast cell development (By similarity). Subunit Structure: Heterodimer of an alpha and a beta subunit. ITGAM associates with ITGB2. Found in a complex with CD177 and ITGB2/CD18 (PubMed:21193407). Interacts with JAM3 (PubMed:15194813, PubMed:12208882). Interacts with THBD (PubMed:27055590). Similarity: The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage. Belongs to the integrin alpha chain family.
References	Yan J, Yang X, Han D, Feng J; Journal: Mol Med Rep. Tanshinone IIA attenuates experimental autoimmune encephalomyelitis in rats.

NCBI AND UNIPROT INFORMATION

NCBI GI #	88501734
NCBI GeneID	3684
NCBI Accession #	NP_000623.2
NCBI GenBank Nucleotide #	NM_000632.3
UniProt Accession #	P11215; Q4VAK0; Q4VAK1; Q4VAK2
Molecular Weight	Observed: 127 kDa Predicted: 128 kDa
NCBI Official Full Name	integrin alpha-M isoform 2
NCBI Official Synonym Full Names	integrin subunit alpha M
NCBI Official Symbol	ITGAM
NCBI Official Synonym Symbols	CR3A; MO1A; CD11B; MAC-1; MAC1A; SLEB6
NCBI Protein Information	integrin alpha-M
UniProt Protein Name	Integrin alpha-M
UniProt Gene Name	ITGAM
UniProt Synonym Gene Names	CD11B; CR3A

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/itgam-antibody-immunohistochemistry-western-blot-elisa/326244>