

Datasheet for ABIN3043258
anti-CD11b antibody (AA 17-382)



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Overview

Quantity:	100 µg
Target:	CD11b (ITGAM)
Binding Specificity:	AA 17-382
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD11b antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Western Blotting (WB)

Product Details

Purpose:	Anti-CD11b/ITGAM Antibody Picoband®
Immunogen:	E.coli-derived human CD11b recombinant protein (Position: F17-T382). Human CD11b shares 79% and 61% amino acid (aa) sequences identity with mouse and rat CD11b, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-CD11b/ITGAM Antibody Picoband® (ABIN3043258). Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	CD11b (ITGAM)
Alternative Name:	ITGAM (ITGAM Products)
Background:	<p>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,CD11b,ITGAM,CD11B, CR3A,</p> <p>Tissue Specificity: Predominantly expressed in monocytes and granulocytes.</p> <p>Background: Integrin alpha M (ITGAM) is one protein subunit that forms the heterodimeric integrin alpha-M beta-2 ($\alpha M\beta 2$) molecule, also known as macrophage-1 antigen (Mac-1) or complement receptor 3 (CR3). It is mapped to 16p11.2. ITGAM has a role in vascular repair after mechanical arterial injury. It is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. What's more, ITGAM probably recognizes the R-G-D peptide in C3b, and it is also a receptor for fibrinogen, factor X and ICAM1.</p> <p>Sequence Similarities: Belongs to the integrin alpha chain family.</p>
Molecular Weight:	45 kDa
Gene ID:	3684
UniProt:	P11215
Pathways:	Apoptosis , Activation of Innate immune Response , Toll-Like Receptors Cascades , Activated T Cell Proliferation

Application Details

Application Notes:	<p>Western blot, 0.1-0.5 µg/mL, Human</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse, Rat</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human</p> <p>1. Arnaout, M. A., Remold-O'Donnell, E., Pierce, M. W., Harris, P., Tenen, D. G. Molecular cloning of the alpha-subunit of human and guinea pig leukocyte adhesion glycoprotein Mo1: chromosomal localization and homology to the alpha-subunits of integrins. Proc. Nat. Acad. Sci. 85: 2776-2780, 1988. 2. Solovjov D, Pluskota E, Plow E (2005). "Distinct roles for the alpha and beta subunits in the functions of integrin alphaMbeta2". J Biol Chem 280 (2): 1336-45. 3. Simon, D. I., Chen, Z., Seifert, P., Edelman, E. R., Ballantyne, C. M., Rogers, C. Decreased neointimal formation in Mac-1 -/- mice reveals a role for inflammation in vascular repair after angioplasty. J. Clin. Invest. 105: 293-300, 2000.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

Application Details

ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na₂HPO₄.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: Mu, Jing, Guo: "Expressions of CD11a, CD11b, and CD11c integrin proteins in rats with myocardial hypertrophy." in: **Iranian journal of basic medical sciences**, Vol. 17, Issue 11, pp. 874-8, (2015) ([PubMed](#)).

Ren, Zhang, Zhou, Sun, Zhang, Wei, Zhang, Si: "Tanshinone IIA prevents the loss of nigrostriatal dopaminergic neurons by inhibiting NADPH oxidase and iNOS in the MPTP model of Parkinson's disease." in: **Journal of the neurological sciences**, Vol. 348, Issue 1-2, pp. 142-52, (2015) ([PubMed](#)).

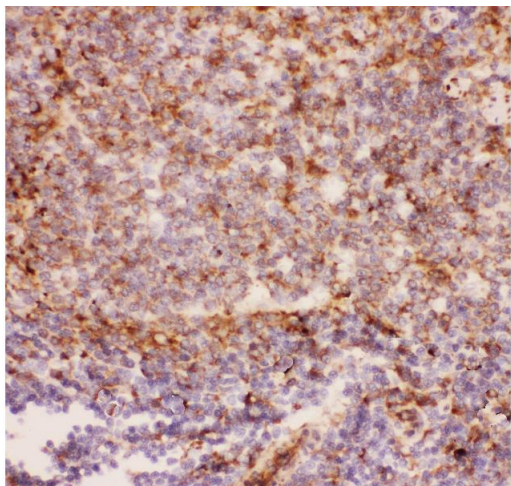
Zhao, Wang, Wang, Sun, Yang, Qiu, Wu, Zhang, Li, Zhang, Zhao, Zou, Ge: "CXCR6 deficiency ameliorated myocardial ischemia/reperfusion injury by inhibiting infiltration of monocytes and IFN-γ-dependent autophagy." in: **International journal of cardiology**, Vol. 168, Issue 2, pp. 853-62, (2013) ([PubMed](#)).

Yuan, Su, Pu, Liu, Chen, Zhu, Zhu, Zhang, He: "Ethyl pyruvate promotes spinal cord repair by ameliorating the glial microenvironment." in: **British journal of pharmacology**, Vol. 166, Issue 2, pp. 749-63, (2012) ([PubMed](#)).

Leng, Zhan, Wang, Liu, Gong, Gao, Wu, Wang, Zhao, Wang, Zhang, Pang, Qian: "Anti-heat shock protein 70 autoantibody epitope changes and BD091 promotes atherosclerosis in rats." in: **Cell stress & chaperones**, Vol. 15, Issue 6, pp. 947-58, (2011) ([PubMed](#)).

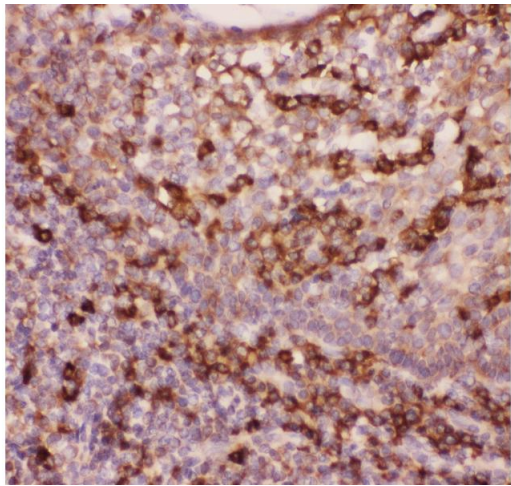
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Images



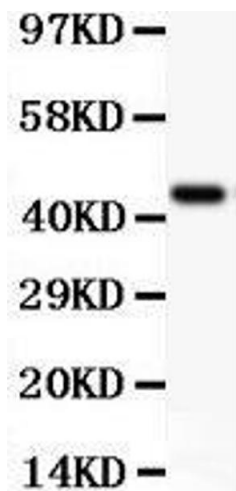
Immunohistochemistry

Image 1. Anti-CD11b Picoband antibody , IHC(P): Rat Spleen Tissue



Immunohistochemistry

Image 2. Anti-CD11b Picoband antibody , IHC(P): Human Tonsil Tissue



Western Blotting

Image 3. Anti-CD11b Picoband antibody , All lanes: Anti CD11B at 0.5ug/ml WB: Recombinant Human CD11B Protein 0.5ng Predicted bind size: 45KD Observed bind size: 45KD

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043258.