

Datasheet for ABIN6939810
anti-CD11b antibody (AA 941-1074)

5 Images

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Overview

Quantity:	100 µg
Target:	CD11b (ITGAM)
Binding Specificity:	AA 941-1074
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD11b antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment (around aa941-1074) of human ITGAM protein (exact sequence is proprietary)
Clone:	ITGAM-3340
Isotype:	IgG2a kappa
Purification:	Purified by Protein A/G

Target Details

Target:	CD11b (ITGAM)
Alternative Name:	ITGAM (ITGAM Products)
Background:	CD11b is a cell adhesion molecule that acts as a receptor for cell surface ligands such as

Target Details

intracellular adhesion molecules (ICAMs) or soluble ligands. Integrins are heterodimeric proteins that contain an α chain and β chain. Integrin αM combines with the Integrin $\beta 2$ to form a leukocyte-specific integrin referred to as macrophage receptor 1 (Mac-1), or inactivated-C3b (iC3b) receptor 3 (CR3). Integrin $\alpha M/\beta 2$ is important in the adherence of neutrophils and monocytes to stimulated endothelium, and also in the phagocytosis of complement coated particles. The protein CD11b has been implicated in the various adhesion-related interactions of cells such as monocytes, macrophages, natural killer (NK) cells, and granulocytes. It is part of a heterodimer that consists of CD11b and CD18. It also modulates the uptake of complement-coated particles within the cell. It is commonly used as a microglial marker in tissues derived from the nervous system.

Molecular Weight:	95kDa & 170kDa
Gene ID:	3684
UniProt:	P11215
Pathways:	Apoptosis , Activation of Innate immune Response , Toll-Like Receptors Cascades , Activated T Cell Proliferation

Application Details

Application Notes:	Positive Control: Monocytes & granulocytes. Lymph nodes, spleen and tonsil (IHC). Known Application: Western Blot (0.5-1.0 μ g/mL), Immunohistochemistry (Formalin-fixed) (1-2 μ g/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

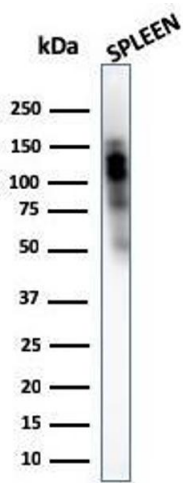
Concentration:	200 μ g/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

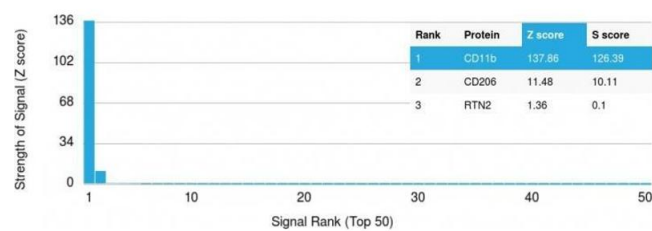
Expiry Date: 24 months

Images



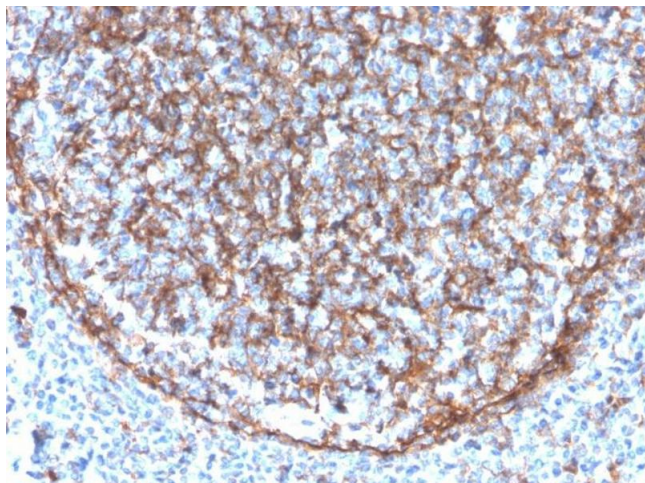
Western Blotting

Image 1. Western Blot Analysis of human spleen tissue lysate using CD11b Monospecific Mouse Monoclonal Antibody (ITGAM/3340).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using CD11b Monospecific Mouse Monoclonal Antibody (ITGAM/3340). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human tonsil stained with CD11b Monospecific Mouse Monoclonal Antibody (ITGAM/3340).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6939810.