CD11b / MAC-1 (Microglial Marker) Antibody

Mouse Monoclonal Antibody [Clone ITGAM/3340]

Catalog No	Format	Size
3684-MSM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3684-MSM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3684-MSM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

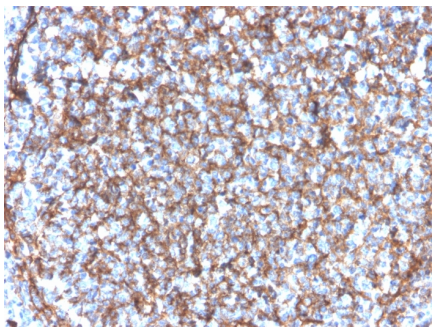
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

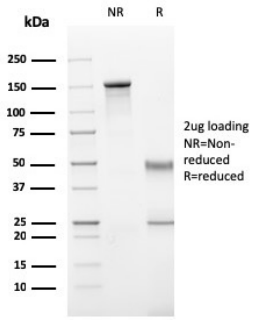
Clone	ITGAM/3340
Gene Name	ITGAM
Immunogen	Recombinant fragment (around aa941-1074) of human ITGAM protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2a / Kappa
Mol. Weight of Antigen	95kDa & 170kDa
Cellular Localization	Cell membrane, Membrane raft
Species Reactivity	Guinea Pig, Human
Positive Control	Monocytes & granulocytes. Lymph nodes, spleen and tonsil (IHC). Human Spleen or Guinea pig Spleen

**Optimal dilution for a specific application should be determined.*

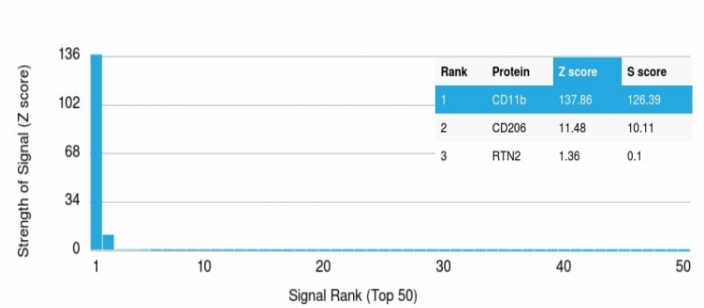
Product Images for CD11b / MAC-1 (Microglial Marker) Antibody



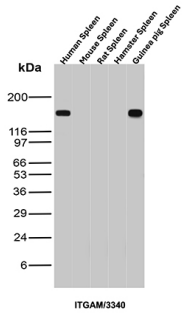
Formalin-fixed, paraffin-embedded human tonsil stained with CD11b Monospecific Mouse Monoclonal Antibody (ITGAM/3340).



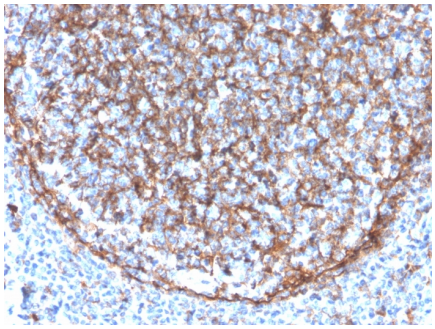
SDS-PAGE Analysis Purified CD11b Monospecific Mouse Monoclonal Antibody (ITGAM/3340). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteinsusing 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 HuProtTM array. Z-scores are described in units of standard deviations (SD?s) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD?s) 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.



Western Blot Analysis of (1) human, (2) mouse, (3) rat, (4) hamster and (5) guinea pig spleen tissue lysates using CD11b Mouse Monoclonal Antibody (ITGAM/3340).



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

Specificity & Comments

CD11b is a cell adhesion molecule that acts as a receptor for cell surface ligands such as intracellular adhesion molecules (ICAMs) or soluble ligands. Integrins are heterodimeric proteins that contain an a chain and b chain. Integrin aM combines with the Integrin '2 to form a leukocyte-specific integrin referred to as macrophage receptor 1 (Mac-1), or inactivated-C3b (iC3b) receptor 3 (CR3). Integrin aM/'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 andCD18. 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.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

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.

Research Areas

AKT Signaling, Cardiovascular, Complement System, Cytokine Signaling, Dendritic Cell Marker, Hematopoietic Stem Cells, Immunology, Mesenchymal Stem Cell Differentiation, Neuroscience

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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