

CD11b / MAC-1 (Microglial Marker) Antibody

Mouse Monoclonal Antibody [Clone ITGAM/4741]

Catalog No	Format	Size
3684-MSM11-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
3684-MSM11-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
3684-MSM11-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

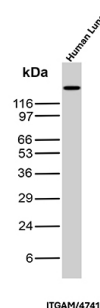
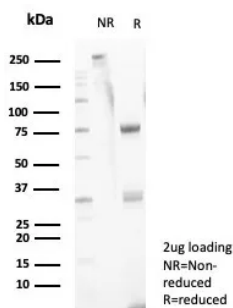
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

Clone	ITGAM/4741
Gene Name	ITGAM
Immunogen	Recombinant fragment (around aa900-1100) of human ITGAM protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	95kDa & 170kDa
Cellular Localization	Cell surface
Species Reactivity	Guinea Pig, Human, Mouse
Positive Control	Monocytes & granulocytes. Lymph nodes spleen and tonsil (IHC). Lung

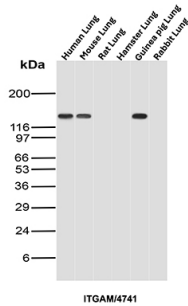
*Optimal dilution for a specific application should be determined.

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

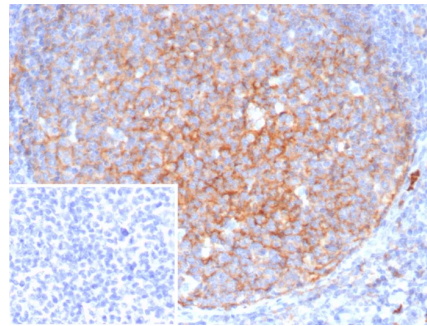


SDS-PAGE Analysis of Purified CD11b Mouse Monoclonal Antibody (ITGAM/4741). Confirmation of Purity and Integrity of Antibody.

Western Blot Analysis of Human Lung tissue lysate using CD11b Mouse Monoclonal Antibody (ITGAM/4741).



Western blot analysis of Human Lung, Mouse Lung, Rat Lung, Hamster Lung, Guinea pig Lung, and Rabbit Lung tissue lysates using CD11b Mouse Monoclonal Antibody (ITGAM/4741).



Formalin-fixed, paraffin-embedded human tonsil stained with CD11b Mouse Monoclonal Antibody (ITGAM/4741). Inset: PBS instead of primary antibody; secondary only negative control.

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 α chain and β chain. Integrin α M combines with the Integrin β 2 to form a leukocyte-specific integrin referred to as macrophage receptor 1 (Mac-1), or inactivated-C3b (iC3b) receptor 3 (CR3). Integrin α M/ β 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 β 2. 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.

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.

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