## Product Description

The ICRF44 antibody reacts with an extracellular epitope on CD11b (integrin αM), an ~170 kDa type 1 transmembrane glycoprotein which associates non-covalently with CD18 to form the heterodimeric Mac-1 receptor. Through its interactions with ligands such as ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, heparin and fibrinogen, Mac-1 influences several processes, including the adherence of neutrophils and monocytes to stimulated endothelium, and phagocytosis of complement-coated particles. CD11b is expressed on the surface of granulocytes, monocytes, NK cells, dendritic cells, tissue macrophages and subsets of T and B cells, and has been used as a marker to distinguish naïve and memory CD8+ T cells. CD11b is a relatively late marker for myeloid differentiation and is undetectable on most myelomonocytic hematopoietic progenitor cells and more primitive cells. Certain mutations in CD11b give rise to the disorder systemic lupus erythematosus. The ICRF44 antibody reportedly inhibits leukocyte aggregation in response to the chemoattractant fMLP.

### Target Antigen Name:
CD11b

### Alternative Names:
C3biR, CR3, Integrin αM chain, Mac-1, MAC1, Mo1

### Gene ID:
3684

### Species Reactivity:
Human, Rhesus, Cynomolgus, Baboon, Chimpanzee, Common Marmoset, Pig

### Host Species:
Mouse

### Clonality:
Monoclonal

### Clone:
ICRF44

### Isotype:
IgG1, κappa

### Immunogen:
Human rheumatoid synovial cells and monocytes

### Conjugate:
FITC

### Applications

- **Verified:** FC
- **Reported:** FC

**Special Applications:**
This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Human Monocyte Enrichment Kit (Catalog #19059), and for labeling human mesenchymal cells grown in MesenCult™ Proliferation Kit (Human; Catalog #05411) and MesenCult™-XF Medium (Catalog #05420).

### Abbreviations:
- **CellSep:** Cell separation
- **ChIP:** Chromatin immunoprecipitation
- **FA:** Functional assay
- **FC:** Flow cytometry
- **ICC:** Immunocytochemistry
- **IF:** Immunofluorescence microscopy
- **IHC:** Immunohistochemistry
- **IP:** Immunoprecipitation
- **RIA:** Radioimmunoassay
- **WB:** Western blotting

### Properties

- **Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) bovine serum albumin
- **Purification:** The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.
- **Stability and Storage:** Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
- **Directions for Use:** For flow cytometry the suggested use of this antibody is ≤ 5 μL per 1 x 10^6 cells in 100 μL volume or per 100 μL of whole blood. It is recommended that the antibody be titrated for optimal performance for each application.
Antibodies

Anti-Human CD11b Antibody, Clone ICRF44, FITC

Data

Flow cytometry analysis of human whole blood nucleated cells labeled with Anti-Human CD11b Antibody, Clone ICRF44, FITC (filled histogram) or a mouse IgG1, kappa isotype control antibody, FITC (solid line histogram).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References