



11-172-C025

Monoclonal Antibody to CD11b activation epitope Purified Antibody (0.025 mg)

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| Clone: | CBRM1/5 |
| Isotype: | Mouse IgG1 |
| Specificity: | The mouse monoclonal antibody CBRM1/5 recognizes an activation-dependent epitope on CD11b (Mac-1alpha), a 165-170 kDa type 1 transmembrane protein mainly expressed on monocytes, granulocytes and NK-cells. The antibody recognizes a subset of CD11b molecules on neutrophils and monocytes activated with chemoattractants or phorbol esters and does not recognize CD11b on non-activated cells. |
| Regulatory Status: | RUO |
| Immunogen: | Information not available |
| Species Reactivity: | Human |
| Application: | Flow Cytometry Immunoprecipitation Functional Application blocking |
| Purity: | > 95% (by SDS-PAGE) |
| Purification: | Purified by protein-A affinity chromatography |
| Concentration: | 1 mg/ml |
| Storage Buffer: | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| Storage / Stability: | Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | CD11b (integrin alphaM subunit) is a 165-170 kDa type I transmembrane glycoprotein that non-covalently associates with integrin beta2 subunit (CD18); expression of the CD11b chain on the cell surface requires the presence of the CD18 antigen. CD11b/CD18 integrin (Mac-1, CR3) is highly expressed on NK cells, neutrophils, monocytes and less on macrophages. CD11b/CD18 integrin is implicated in various adhesive interactions of monocytes, macrophages and granulocytes, facilitating their diapedesis, as well as it mediates the uptake of complement coated particles, serving as a receptor for the iC3b fragment of the third complement component. |
| References: | *Diamond MS, Springer TA: A subpopulation of Mac-1 (CD11b/CD18) molecules mediates neutrophil adhesion to ICAM-1 and fibrinogen. J Cell Biol. 1993 Jan;120(2):545-56. *Fagerholm SC, Varis M, Stefanidakis M, Hilden TJ, Gahmberg CG: alpha-Chain phosphorylation of the human leukocyte CD11b/CD18 (Mac-1) integrin is pivotal for integrin activation to bind ICAMs and leukocyte extravasation. Blood. 2006 Nov 15;108(10):3379-86. |

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Antibodies

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