

## PE anti-human CD11b (activated)

**Catalog # / Size:** 301405 / 25 tests  
301406 / 100 tests

**Clone:** CBRM1/5

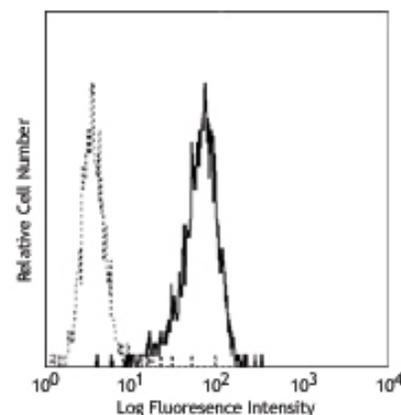
**Isotype:** Mouse IgG1,  $\kappa$

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



PMA activated human granulocytes stained with CBRM1/5 FITC

## Applications:

**Applications:** FC - Quality tested

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at [www.biolegend.com/testsize](http://www.biolegend.com/testsize) regarding the test size change.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation, and blocking<sup>1</sup> of the binding of ICAM-1 and fibrinogen. The CBRM1/5 antibody binds specifically to the activated form of CD11b. The LEAF™ purified antibody (Endotoxin <0.1 EU/ $\mu$ g, Azide-Free, 0.2  $\mu$ m filtered) is recommended for functional assays (Cat. No. 301408).

**Application References:**

1. Diamond M, *et al.* 1993. *J. Cell Biol.* 120:545. (Block)
2. Bryn T, *et al.* 2006. *J. Immunol.* 176:7361. *J. Immunol.*
3. Sithu SD, *et al.* 2007. *J. Biol. Chem.* doi:10.1074/jbc.M611273200.
4. Barthel SR, *et al.* 2006. *Am J. Respir Cell Mol Biol.* 35:378. PubMed
5. Pillay J, *et al.* 2010. *J. Leukocyte Biol.* 88:211. PubMed
6. Wilson RP, *et al.* 2011. *Infect Immun.* 79:830. PubMed
7. Koleva RI, *et al.* 2012. *Blood.* 119:4878. PubMed.
8. Eleftherious D, *et al.* 2012. *Neurology.* 79:2089. PubMed.

**Description:** The CBRM1/5 antibody reacts with an activated form of human CD11b, a 165-170 kD type I transmembrane glycoprotein also known as  $\alpha_M$  integrin, Mac-1, CR3, and C3bI<sub>R</sub>. CD11b non-covalently associates with integrin  $\beta_2$  (CD18) and is expressed on granulocytes, monocytes/macrophages dendritic cells, NK cells, and subsets of T and B cells. CD11b/CD18 is critical for the transendothelial migration of monocytes and neutrophils, as well as adhesion, phagocytosis and neutrophil activation. CD11b/CD18 interacts with ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4, CD14, CD23, heparin, iC3b, fibrinogen and Factor X. The CBRM1/5 antibody recognizes a subset of CD11b molecules on neutrophils and monocytes activated with chemoattractants or phorbol-esters. This antibody does not recognize "non-activated" CD11b. The epitope recognized by CBRM1/5 is contained in the I domain of the  $\alpha$  chain. The CBRM1/5 antibody blocks cell adhesion to fibrinogen and ICAM-1.

**Antigen References:**

1. Stewart M, *et al.* 1995. *Curr. Opin. Cell Biol.* 7:690.
2. Petty H, *et al.* 1996. *Immunol. Today* 17:209.

Related Products:	Product	Clone	Application
	PE anti-human CD11c	3.9	FC
	PE anti-human CD11a	HI111	FC
	PE anti-human CD11b	ICRF44	FC
	PE anti-human CD18	TS1/18	FC
	PE Mouse IgG1, $\kappa$ Isotype Ctrl	MOPC-21	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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