

Store at
-20C
#49420**CD11b/ITGAM (D6X1N) Rabbit mAb**

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, W-S, IHC-Bond, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 170	Source/Isotype: Rabbit IgG	UniProt ID: #P11215	Entrez-Gene Id: 3684
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Product Usage Information**Application**

Western Blotting
Simple Western™
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:10 - 1:50
1:100 - 1:400
1:100 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

CD11b/ITGAM (D6X1N) Rabbit mAb recognizes endogenous levels of total CD11b/ITGAM protein. Monkey cross-reactivity is determined by immunohistochemistry.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human CD11b/ITGAM protein

Background

Cluster of differentiation molecule 11b (CD11b)/Integrin alpha M (ITGAM) is a transmembrane protein forming heterodimers that are composed of α and β subunits (1). CD11b is expressed by, and commonly used as a marker for, myeloid lineage cells, including neutrophils, monocytes, macrophages, and microglia (2). CD11b is phosphorylated at Ser1126 (cytoplasmic tail) in neutrophils. Research has shown that this phosphorylation event plays a role for leukocytes traveling from the bloodstream to tissues (3). Furthermore, genome-wide association studies have linked CD11b to autoimmune diseases, such as systemic lupus erythematosus (SLE) (4).

Background References

- Solovjov, D.A. et al. (2005) *J Biol Chem* 280, 1336-45.
- Murray, P.J. and Wynn, T.A. (2011) *Nat Rev Immunol* 11, 723-37.
- Fagerholm, S.C. et al. (2006) *Blood* 108, 3379-86.
- Rosetti, F. and Mayadas, T.N. (2016) *Immunol Rev* 269, 175-93.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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