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#97585**CD11c (D1V9Y) Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IHC-Bond, IHC-P, IF-F, IF-IC	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 145	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9QXH4	<b>Entrez-Gene Id:</b> 16411
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**Product Usage Information****Application**

Western Blotting  
IHC Leica Bond  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Frozen)  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:150 - 1:600  
1:150 - 1:600  
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.

For a carrier free (BSA and azide free) version of this product see product #39143.

**Specificity/Sensitivity**

CD11c (D1V9Y) Rabbit mAb recognizes endogenous levels of total CD11c protein. Non-specific staining of the epithelium in fixed frozen mouse colon was observed by immunofluorescence. Non-specific staining in fixed frozen mouse brain was observed by immunofluorescence.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1153 of mouse CD11c protein.

**Background**

CD11c (integrin  $\alpha X$ , ITGAX) is a transmembrane glycoprotein that forms an  $\alpha\beta$  heterodimer with CD18 (integrin  $\beta 2$ ), which interacts with a variety of extracellular matrix molecules and cell surface proteins (1). CD11c is primarily used as a dendritic cell marker. Dendritic cells can be classified into two major types: CD11c<sup>+</sup> conventional dendritic cells that specialize in antigen presentation, and CD11c<sup>-</sup> plasmacytoid dendritic cells that specialize in type I interferon production (2, 3). CD11c expression has also been observed on activated NK cells, subsets of B cells, monocytes, granulocytes, and some B cell malignancies including hairy cell leukemia (4-7).

**Background References**

1. Uotila, L.M. et al. (2013) *J Biol Chem* 288, 33494-9.
2. Kohrgruber, N. et al. (1999) *J Immunol* 163, 3250-9.
3. Siegal, F.P. et al. (1999) *Science* 284, 1835-7.
4. Racine, R. et al. (2008) *J Immunol* 181, 1375-85.
5. Werfel, T. et al. (1991) *J Immunol* 147, 2423-7.
6. Cabañas, C. et al. (1988) *Hybridoma* 7, 167-76.
7. Kristensen, J.S. et al. (1987) *Blood* 70, 1063-8.

**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 **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **IF-F:** Immunofluorescence (Frozen) **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**M:** Mouse

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