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-20C
#62824**CD11c (3.9) Mouse mAb**

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC	H	Endogenous	Mouse IgG1	#P20702	3687

Product Usage Information**Application**

Immunofluorescence (Immunocytochemistry)

Dilution

1:200 - 1:800

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.* This product is stable for 60 months when stored at -20°C.

Specificity/Sensitivity

CD11c (3.9) Mouse mAb recognizes endogenous levels of total CD11c protein.

Source / Purification

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography.

Background

CD11c (integrin αX, ITGAX) is a transmembrane glycoprotein that forms an αβ heterodimer with CD18 (integrin β2), 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+ conventional dendritic cells that specialize in antigen presentation, and CD11c-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).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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