

#45581 Store at -20C

CD11c (D3V1E) XP® Rabbit mAb



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-Bond, IHC-P, IF-IC	H	Endogenous	145	Rabbit IgG	#P20702	3687

Product Usage Information

Application

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

Dilution

1:1000
1:200 - 1:800
1:200 - 1:800
1:800 - 1:1600

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 #93233.

Specificity / Sensitivity

CD11c (D3V1E) XP® Rabbit mAb recognizes endogenous levels of total CD11c protein. This antibody does not cross-react with CD11b.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human CD11c protein.

Background

CD11c (integrin αX, ITGAX) is a transmembrane glycoprotein that forms an α/β 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).

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

WB: Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)
IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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