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#43514**CD141/Thrombomodulin (E7Y9P) XP[®]
Rabbit mAb****Orders:** 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #P07204	Entrez-Gene Id: 7056
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**Product Usage
Information****Application**

Western Blotting
Immunoprecipitation
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:200
1:100 - 1:400
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.*

For a carrier free (BSA and azide free) version of this product see product #34149.

Specificity/Sensitivity

Thrombomodulin (E7Y9P) XP[®] Rabbit mAb recognizes endogenous levels of total CD141/Thrombomodulin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with human CD141/Thrombomodulin recombinant protein.

Background

CD141/Thrombomodulin (TM, THBD, BDCA-3) is an integral membrane protein expressed on the surface of endothelial cells (1). Acting as a cofactor with Thrombin, CD141/Thrombomodulin activates and initiates the Protein C anticoagulant pathway (1,2). CD141/Thrombomodulin is expressed by a small subset of human CD11c+ myeloid dendritic cells (3-4). These CD141+XCR1+ dendritic cells cross-present antigens to naïve CD8+ T cells, priming them to become activated cytotoxic CD8+ T cells (3-5).

Background References

1. Esmon, N.L. et al. (1982) *J Biol Chem* 257, 859-64.
2. Esmon, C.T. et al. (1982) *J Biol Chem* 257, 7944-7.
3. Dzionek, A. et al. (2000) *J Immunol* 165, 6037-46.
4. MacDonald, K.P. et al. (2002) *Blood* 100, 4512-20.
5. Bachem, A. et al. (2010) *J Exp Med* 207, 1273-81.

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 **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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