

Store at
-20°C
#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:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-Bond, IHC-P	H	Endogenous	90	Rabbit IgG	#P07204	7056

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	1:200
	IHC Leica Bond	1:100 - 1:400
	Immunohistochemistry (Paraffin)	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. <i>Do not aliquot the antibody.</i>	
	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) <i>J Biol Chem</i> 257, 859-64. 2. Esmon, C.T. et al. (1982) <i>J Biol Chem</i> 257, 7944-7. 3. Dzionek, A. et al. (2000) <i>J Immunol</i> 165, 6037-46. 4. MacDonald, K.P. et al. (2002) <i>Blood</i> 100, 4512-20. 5. Bachem, A. et al. (2010) <i>J Exp Med</i> 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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