3/23/24, 10:44 AM Revision 4

	CD9 (D3H4P) Rabbit mAb		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
L3403		Support:	877-678-TECH (8324)	
:134		Web:	info@cellsignal.com cellsignal.com	
#	3 Trask	Lane Danvers Ma	assachusetts   01923   USA	

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

Applications: WB, IHC-P	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 22, 24, 35	Source/Isotype: Rabbit IgG	UniProt ID: #P21926	Entrez-Gene Id: 928	
Product Usage Information		plication		Dilution			
internation		stern Blotting			1:1000		
	Imn	nunohistochemistry	(Paraffin)		1:100 - 1:4	100	
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 a	and azide free) v	ersion of this product se	e product #73765.		
Specificity / Sensitiv	<b>/ity</b> CD9	CD9 (D3H4P) Rabbit mAb recognizes endogenous levels of total CD9 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val178 of human CD9 protein.					
Background	four (ECI spec inclu dem was bloo expr rese	The CD9 antigen belongs to the tetraspanin family of cell surface glycoproteins, and is characterized by four transmembrane domains, one short extracellular domain (ECL1), and one long extracellular domain (ECL2). Tetraspanins interact with a variety of cell surface proteins and intracellular signaling molecules in specialized tetraspanin-enriched microdomains (TEMs), where they mediate a range of processes including adhesion, motility, membrane organization, and signal transduction (1). Research studies demonstrate that CD9 expression on the egg is required for gamete fusion during fertilization (2-4). CD9 was also shown to play a role in dendritic cell migration, megakaryocyte differentiation, and homing of cord blood CD34+ hematopoietic progenitors to the bone marrow (5-7). In addition, downregulation of CD9 expression is associated with poor prognosis and progression of several types of cancer (8-10). Additional research identified CD9 as an abundant component of exosomes, and may play some role in the fusion of these secreted membrane vesicles with recipient cells (11).					
Background Referen	2. Le 3. M 4. Ka 5. M 6. Cl 7. Le 8. M 9. Hi 10. Uo	emler, M.E. (2005) / e Naour, F. et al. (200 aji, K. et al. (2000) / antegazza, A.R. et a lay, D. et al. (2001) / eung, K.T. et al. (2011) iyake, M. et al. (199 gashiyama, M. et al chida, S. et al. (1999)	00) Science 287, 5 0) Science 287, 5 lat Genet 24, 279 al. (2004) Blood 5 Blood 97, 1982-9 1) Blood 117, 18 5) Cancer Res 5 . (1995) Cancer 79 9) Br J Cancer 79	, 319-21. 321-4. 9-82. 104, 1183-90. 9. 340-50. 5, 4127-31. <i>Res</i> 55, 6040-4. 9, 1168-73.			
Species Reactivity	Spec	ies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffer		DRTANT: For wester Tween® 20 at 4°C		membrane with diluted ng, overnight.	primary antibody in 5%	% w/v BSA, 1X TBS,	
Applications Key	WB:	Western Blotting IH	IC-P: Immunohis	tochemistry (Paraffin)			
Cross-Reactivity Ke	<b>X</b> : Xe		B: bovine Dg: de	Mk: monkey Vir: virus I og Pg: pig Sc: S. cerevi es expected		-	

Trademarks and Patents

**Limited Uses** 

CD9 (D3H4P) Rabbit mAb (#13403) Datasheet Without Images Cell Signaling Technology

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. SignalStain is a registered trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.