e at -20C	CD54/ICAM-1 Antibody		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#		3 Trask Lane Danvers Mas	sachusetts 01923 USA	

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 89, 92	Source: Rabbit	UniProt ID: #P05362	Entrez-Gene Id: 3383			
Product Usage Information	-	oplication estern Blotting	Dilution 1:1000						
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity / Sens		CD54/ICAM-1 Antibody detects endogenous levels of total CD54 (ICAM-1) protein. The antibody does not cross-react with other IgSF adhesion molecules.							
Source / Purificat	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human CD54 (ICAM-1) protein. Antibodies are purified by protein A and peptide affinity chromatography.							
Background	imn type loca leuk epit CD fund CD Pho	Intercellular cell adhesion molecule-1 (CD54 or ICAM-1) is a cell surface glycoprotein that belongs to the immunoglobulin superfamily (IgSF) of adhesion molecules. CD54 is expressed at low levels in diverse cell types, and is induced by cytokines (TNF-α, interleukin-1) and bacterial lipopolysaccharide (1). Apical localization of CD54 on endothelial cells (or basolateral localization on epithelial cells) is a prerequisite for leukocyte trafficking through the endothelial (or epithelial) barrier (1). Apical expression of CD54 on epithelial cells mediates pathogen invasion as well as host defense, a pattern also observed in tumors (1). CD54 also functions as a co-stimulator on antigen presenting cells, binding to its receptor LFA-1 (leukocyte function-associated antigen-1) on the surface of T cells during antigen presentation (2). Cross-linking of CD54 or binding to its ligand triggers activation of Src family kinases and the Rho/ROCK pathway (3-7). Phosphorylation on Tyr485 of CD54 is required for its association with SHP-2 (5). SHP-2 seems essential for CD54-induced Src activation (7).							
Background References		 Hopkins, A.M. et al. (2004) Adv Drug Deliv Rev 56, 763-78. Nishibori, M. et al. (2003) J Pharmacol Sci 92, 7-12. Holland, J. and Owens, T. (1997) J Biol Chem 272, 9108-12. Etienne, S. et al. (1998) J Immunol 161, 5755-61. Pluskota, E. et al. (2000) J Biol Chem 275, 30029-36. Muro, S. et al. (2003) J Cell Sci 116, 1599-609. Wang, Q. et al. (2003) J Biol Chem 278, 47731-43. 							
Species Reactivit	t y Spec	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).			
Western Blot Buf		PORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications Key	WB	: Western Blotting							
Cross-Reactivity	X : X	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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CD54/ICAM-1 Antibody (#4915) Datasheet Without Images Cell Signaling Technology

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