e at -20C	LCP1 (D1C3) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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¢3588		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

Applications: WB, IHC-P	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P13796	Entrez-Gene Id: 3936		
Product Usage Information	We	plication estern Blotting nunohistochemistry	(Paraffin)		1::	lution 1000 400		
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.						
Specificity / Sensit	city / Sensitivity LCP1 (D1C3) Rabbit mAb recognizes endogenous levels of total LCP1 protein.							
Species predicted react based on 100 sequence homolog	0%	ıkey						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp567 of human LCP1 protein.						
Background		Highly conserved and widely expressed plastin proteins comprise a subset of actin-binding proteins that include proteins that promote actin bundling. Three plastins exhibiting differential expression are found in mammals and include L-plastin, T-plastin, and I-plastin. T-plastin (plastin-3) is found in cells of most solid tissues, while I-plastin (plastin-1) is expressed specifically in the kidney, colon, and small intestine (1-3). Research studies have shown that L-plastin (plastin-2) or lymphocyte cytosolic protein 1 (LCP1) is mainly expressed in hematopoietic cells and nonhematopoietic tumors, and increased expression correlates with metastatic progression in colon cancer cell lines (4). Investigators have found that overexpression of LCP1 in premetastatic cancer cell lines induces invasion and loss of E-cadherin expression, which is characteristic of metastatic cancer cell lines (5). LCP1 becomes phosphorylated at Ser5 upon stimulation through the T cell receptor/CD3 complex in association with the CD2 cell adhesion molecule or the CD28 receptor (6). Phosphorylation at Ser5 enhances the ability of LCP1 to bind to F-actin and increases cell motility (7,8).						
Background Refer	2. Li 3. D 4. O 5. Fr 6. W 7. Ja	 Lin, C.S. et al. (1993) J Biol Chem 268, 2781-92. Lin, C.S. et al. (1994) Mol Cell Biol 14, 2457-67. Delanote, V. et al. (2005) Acta Pharmacol Sin 26, 769-79. Otsuka, M. et al. (2001) Biochem Biophys Res Commun 289, 876-81. Foran, E. et al. (2006) Int J Cancer 118, 2098-104. Wabnitz, G.H. et al. (2007) Eur J Immunol 37, 649-62. Janji, B. et al. (2006) J Cell Sci 119, 1947-60. Klemke, M. et al. (2007) Int J Cancer 120, 2590-9. 						
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffe	ot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				5 w/v nonfat dry			
Applications Key Cross-Reactivity Key		WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
		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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Limited Uses

LCP1 (D1C3) Rabbit mAb (#3588) Datasheet Without Images Cell Signaling Technology

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