at -	CD71 (D7S5Z) Rabbit mAb	HE .	Cell Signaling TECHNOLOGY®
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Applications: WB, IP, IF-IC	Reactivity H	: Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #P02786	Entrez-Gene Id: 7037	
Product Usage Information		Application Western Blotting			Dilu 1:10	ution 000	
		Immunoprecipitation			1:10	00	
		Immunofluorescence (Immunocytochemistry)			1:100 - 1:400		
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 / Sensitivity		CD71 (D7S5Z) Rabbit mAb recognizes endogenous levels of total CD71 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg655 of human CD71 protein.					
Background		Transferrin receptor 1 (C for the uptake of cellular promotes binding of the complex enters the cell t Relatively lower endoson transferrin binding site a cell surface where transf receptor is continuously binding state. The intera of CD71 directly interact the transport process (3) membrane protein hemo of the CD71-transferrin c also interacts with H-ferr cellular endosomes and evolutionarily conserved expression of CD71 is se lineage leukemias, sugg (9,10).	iron through rec iron-binding glyc through receptor mal pH leads to nd results in the ferrin dissociates recycled and un ction between re s with the transfe). Interaction bet chromatosis (HI complex and inhi- itin at the cell su lysosomes (6). A receptor for a n een in a number esting a possible	septor-mediated endocy coprotein transferrin (Tf) -mediated endocytosis a change in the local ch release of iron (2). The s from the CD71 receptor dergoes clathrin-mediat eceptor and ligand has the errin C-lobe and induces ween the receptor CD72 FE). HFE binds the α-he ibiting iron uptake (4,5). Inface and transports thi Additional studies indica umber of arenaviruses a of cancers, including the e therapeutic role for tar	tosis (1). Neutral pH at to the CD71 receptor. and is internalized into arge environment surr receptor-ligand compl- or (2). Ubiquitously exp ed endocytosis regard been studied in detail. s a conformation chang 1 and transferrin is me elical domain of CD71, In addition to binding to s intracellular iron stora te that the transferrin r and at least one retroving yroid carcinomas, lymp geted inhibition of the	the cell surface The receptor-ligand an endosome. ounding the iron- ex is recycled to the pressed transferrin less of ligand The helical domain ge in Tf to facilitate diated by the blocking formation transferrin, CD71 age protein to receptor is an irus (7,8). Aberrant phomas, and T-	
Background Refere		1. Ponka, P. and Lok, C. 2. Bali, P.K. et al. (1991) 3. Cheng, Y. et al. (2004) 4. Bennett, M.J. et al. (2015) 5. Feder, J.N. et al. (1994) 6. Li, L. et al. (2010) <i>Pro</i> 7. Radoshitzky, S.R. et al 8. Coffin, J.M. (2013) <i>PL</i> 9. Magro, G. et al. (2011) 0. Rodríguez, J.A. et al.	Biochemistry 30) Cell 116, 565-7 000) Nature 403 8) Proc Natl Acad c Natl Acad Sci al. (2007) Nature oS Biol 11, e100 .) Thyroid 21, 26), 324-8. 76. , 46-53. <i>Id Sci U S A</i> 95, 1472-7. <i>U S A</i> 107, 3505-10. 446, 92-6. 01574. 7-77.			
Species Reactivity	S	Species reactivity is deter	rmined by testine	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffer		MPORTANT: For western).1% Tween® 20 at 4°C v			primary antibody in 59	% w/v BSA, 1X TBS,	

1/1/24, 3:32 PM	CD71 (D7S5Z) Rabbit mAb (#13208) Datasheet Without Images Cell Signaling Technology			
Applications Key	WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)			
Cross-Reactivity Key	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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