Revision 5		
Transferrin Receptor/CD71 (D7S5Z) Rabbit mAb	T C	ell Signaling
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Applications: V, IP, IF-IC, eCLIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #P02786	Entrez-Gene Id 7037	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence eCLIP For more information	(Immunocytochem	istry) IP service please visit Ec	1:1 1:1 1:1 1:2	00 - 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/Sensiti	ivity	Transferrin Receptor/CD71 (D7S5Z) Rabbit mAb recognizes endogenous levels of total Transferrin Receptor/CD71 protein.			al Transferrin		
Source / Purificati	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg655 of human Transferrin Receptor/CD71 protein.			orresponding to		
Background		for the uptake of cellu promotes binding of t ligand complex enters endosome. Relatively surrounding the iron- complex is recycled to Ubiquitously expresse endocytosis regardles studied in detail. The l conformation change CD71 and transferrin i helical domain of CD7 (4,5). In addition to bin transports this intrace studies indicate that t arenaviruses and at le cancers, including thy	lar iron through re he iron-binding gly s the cell through re lower endosomal p transferrin binding the cell surface wh ed transferrin recep s of ligand binding helical domain of C in Tf to facilitate th is mediated by the 1, blocking formati nding transferrin, C ellular iron storage he transferrin recep iast one retrovirus (roid carcinomas, ly	ype II transmembrane re- ceptor-mediated endocy coprotein transferrin (If eceptor-mediated endocy H leads to a change in t site and results in the re- nere transferrin dissociat tor is continuously recyc state. The interaction be D71 directly interacts wite e transport process (3). I membrane protein hem- on of the CD71-transfer D71 also interacts with H protein to cellular endos otor is an evolutionarily 7,8). Aberrant expressio mphomas, and T-lineage f the transferrin recepto	tosis (1). Neutral pH) to the CD71 recep ytosis and is intern- he local charge env lease of iron (2). Th tes from the CD71 r led and undergoes atween receptor an th the transferrin C Interaction between ochromatosis (HFE) rin complex and inh H-ferritin at the cell omes and lysosom- conserved receptor n of CD71 is seen ir e leukemias, sugges	t at the cell surface tor. The receptor- alized into an ironment e receptor-ligand eceptor (2). clathrin-mediated d ligand has been -lobe and induces a -lobe and induces a -lobe and surface and the receptor . HFE binds the α- ibiting iron uptake surface and es (6). Additional for a number of	
Background Refe	rences	1. Ponka, P. and Lok, C 2. Bali, P.K. et al. (1991 3. Cheng, Y. et al. (200 4. Bennett, M.J. et al. (5. Feder, J.N. et al. (199 6. Li, L. et al. (2010) <i>Pr</i> 7. Radoshitzky, S.R. et 8. Coffin, J.M. (2013) <i>P</i> 9. Magro, G. et al. (201 10. Rodríguez, J.A. et a) Biochemistry 30, 4) Cell 116, 565-76. 2000) Nature 403, 4 98) Proc Natl Acad 5 oc Natl Acad Sci U al. (2007) Nature 4 LoS Biol 11, e10015 11) Thyroid 21, 267-	16-53. Sci U S A 95, 1472-7. S A 107, 3505-10. 46, 92-6. 74. 77.	7.		
Species Reactivity	,	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buff	er	IMPORTANT: For west TBS, 0.1% Tween® 20			n diluted primary antibody in 5% w/v BSA, 1X ht.		
Applications Key		W: Western Blotting I					

Cross-Reactivity Key	H: Human
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