e at -20C	Eps15 (D3K8R) Rabbit mAb	A CONTRACTOR	Cell Signaling
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for Use in Diagnostic Procedures.

Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence (Ir	nmunocytochem	nistry)		<b>Dilution</b> 1:1000 1:100 1:200	
Storage	Supplied in 10 mM sodiu 0.02% sodium azide. Sto	ım HEPES (pH 7 ore at –20°C. Do	7.5), 150 mM NaCl, 100 not aliquot the antibody	μg/ml BSA, 50% glyc /.	erol and less than	
Specificity / Sensitivity	Eps15 (D3K8R) Rabbit mAb recognizes endogenous levels of total Eps15 protein. Based upon sequence alignment, this antibody is predicted to react with both Eps15a and Eps15b. This antibody does not cross-react with Eps15R.					
Species predicted to react based on 100% sequence homology:	Chicken, Xenopus, Dog,	Horse				
Source / Purification	Monoclonal antibody is p residues surrounding Pro	produced by imm p630 of human E	unizing animals with a s Eps15 protein.	synthetic peptide corre	esponding to	
Background	Eps15 (EGFR pathway s EGFR (1). Eps15 has a f evolutionarily conserved required for constitutive of amino acid triplet Asp-Pr contains two ubiquitin int ubiquitin (1). Several line the endocytosis of synap and/or synaptic vesicle m markers of the plasma m trafficking of c-Met (3) ar clathrin-coated pits throu The <i>EPS15</i> gene yields i thus implicated in differe	substrate 15) was tripartite structure EH protein-prote oligmerization, a o-Phe that consister eraction motifs ( es of evidence su otic vesicles. Eps ecycling, such as nembrane clathri and EGFR (4), pos ugh interaction be two isoforms that nt facets of endo	s originally discovered a e comprising an amino f ein interaction domains, nd a carboxy terminal d titute the AP2 binding do UIMs), the last of which upport a role for Eps15 i a15 binds to AP2 as well s synaptojanin1 and eps n-coated pits and vesicl ssibly by recruiting the u etween the ubiquitin tag t are believed to reside psomal trafficking (5). Ho	as a substrate for the l terminal portion, which a central putative coi omain containing mul omain. The carboxy te is indespensible for E n clathrin-mediated en a sother proteins invo sin. Furthermore, Eps. es (2). Eps15 regulate ibiquitinated receptors and its UIMs. in distinct subcellular uman <i>EPS15</i> has bee	kinase activity of h contains three led-coil region tiple copies of the erminal domain also Eps15 binding to ndocytosis, including olved in endocytosis 15 colocalizes with es the endosomal s to the rims of	
	chromosome 1p31-p32, deletions in neuroblastor has shown two transloca Eps15 gene was fused to	a region displayi na and transloca tions t(1;11)(p32 o the HRX gene,	ing several nonrandom ations in acute lymphobl 2;q11) are found in rare resulting in two recipro	chromosomal abnorm astic and myeloid leuk cases of myeloid leuk cal fusion genes (6).	ialities, including kemias. Research kemia where the	
Background References	1. Fazioli, F. et al. (1993) 2. Tebar, F. et al. (1996) 3. Parachoniak, C.A. and 4. Torrisi, M.R. et al. (199 5. Roxrud, I. et al. (2008) 6. Bernard, O.A. et al. (1	Mol Cell Biol 13 J Biol Chem 271 I Park, M. (2009) 99) Mol Biol Cell J Cell Biol 180, 994) Oncogene	8, 5814-28. , 28727-30. ) <i>J Biol Chem</i> 284, 8382 10, 417-34. 1205-18. 9, 1039-45.	2-94.		

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

1/1/24, 6:23 AM	Eps15 (D3K8R) Rabbit mAb (#12460) Datasheet Without Images Cell Signaling Technology				
Western Blot 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.				
Applications Key	WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
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