e at -20C	ERC1 (P85) Antibody		Cell Signaling TECHNOLOGY®		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#	3 Trask I	_ane Danvers Ma	assachusetts 01923 USA		

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

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 130, 120	Source: Rabbit	UniProt ID: #Q8IUD2	Entrez-Gene Id: 23085		
Product Usage Information		ApplicationDilutionWestern Blotting1:1000Immunoprecipitation1:100						
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		ERC1 (P85) Antibody detects endogenous levels of ERC1 protein. Both α and β isoforms of ERC1 are detected.						
Species predicted to react based on 100% sequence homology:		ıkey						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of ERC1 protein. Antibodies are purified by peptide affinity chromatography.						
Background		ERC1, an acronym named for previous protein names ELKS (1), RAB6IP2 (2) and CAST (3), is a RIM- binding protein that plays a role in neurotransmitter release and general membrane trafficking in other cell types (2-5). Interaction with the GTP-binding protein Rab6 suggests that it contributes to membrane traffic at the Golgi (2). In addition to its association with membrane trafficking, ERC1 has also been found as an essential part of the IkB kinase (IKK) complex required for the activation of NF-kB, perhaps by recruiting IkB α to the IKK complex (6). Alternative splicing of ERC1 generates 2 proteins with a divergent carboxy terminus, a long and a short form termed ERC1 α and ERC1 β , respectively. ERC1 α is widely expressed, whereas ERC1 β and a related family member ERC2 are expressed in the brain (4). Papillary thyroid carcinomas have been identified with the translocation t(10;12)(p11;p13) resulting in a fusion between ERC1 and the receptor tyrosine kinase Ret (1).						
Background Refer	2. N 3. C 4. V 5. C	 Nakata, T. et al. (1999) Genes Chromosomes Cancer 25, 97-103. Monier, S. et al. (2002) Traffic 3, 289-97. Ohtsuka, T. et al. (2002) J Cell Biol 158, 577-90. Wang, Y. et al. (2002) Proc Natl Acad Sci USA 99, 14464-9. Ohara-Imaizumi, M. et al. (2005) Mol Biol Cell 16, 3289-300. Ducut Sigala, J.L. et al. (2004) Science 304, 1963-7. 						
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffe		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	WB	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity K	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						

Trademarks and Patents

Limited Uses

ERC1 (P85) Antibody (#2884) Datasheet Without Images Cell Signaling Technology

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