

ERC1α (D1055) Antibody



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Applications: W, IP	Reactivity:	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #Q8IUD2	Entrez-Gene Id: 23085
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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 α (D1055) Antibody detects endogenous levels of the α isoform of human ERC1.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxy terminus of human ERC1 protein, specific for the α isoform. Antibodies were purified by peptide affinity chromatography.				
Background		ERC1, an acronym named for previous protein names ELKS (1), RAB6IP2 (2) and CAST (3), is a RIMbinding 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 References		 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 Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer 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 W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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