

#2958 Store at -20C

## Erlin-1 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	43	Rabbit	#O75477	10613

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	Erlin-1 Antibody detects endogenous levels of total human erlin-1 protein.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly320 of human erlin-1. Antibodies are purified by peptide affinity chromatography.	
<b>Background</b>	Erlin-1 and erlin-2 (SPFH1 and SPFH2) are SPFH domain-containing proteins that belong to the prohibitin family (1,2). The N-terminal domain of erlin proteins contains ER-targeting sequences responsible for their translocation to the endoplasmic reticulum (ER) (3). In the ER, erlin-1 and erlin-2 specifically associate with the detergent resistant lipid raft microdomain of the membrane (3). Erlin-1 may be involved in dendritic cell activation (4) and erlin-2 has been shown to regulate the ER-associated degradation (ERAD) pathway by interacting with endogenous substrates and resulting in their polyubiquitination and degradation (5).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Browman, D.T. et al. (2007) <i>Trends Cell Biol</i> 17, 394-402.</li> <li>2. Morrow, I.C. and Parton, R.G. (2005) <i>Traffic</i> 6, 725-40.</li> <li>3. Browman, D.T. et al. (2006) <i>J Cell Sci</i> 119, 3149-60.</li> <li>4. Li, N. et al. (2000) <i>Biochem Biophys Res Commun</i> 279, 487-93.</li> <li>5. Pearce, M.M. et al. (2007) <i>J Biol Chem</i> 282, 20104-15.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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