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#2958

## Erlin-1 Antibody

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

<b>Applications:</b> W	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 43	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O75477	<b>Entrez-Gene Id:</b> 10613
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### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

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.

### Specificity/Sensitivity

Erlin-1 Antibody detects endogenous levels of total human erlin-1 protein.

### Source / Purification

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.

### Background

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).

### Background References

1. Browman, D.T. et al. (2007) *Trends Cell Biol* 17, 394-402.
2. Morrow, I.C. and Parton, R.G. (2005) *Traffic* 6, 725-40.
3. Browman, D.T. et al. (2006) *J Cell Sci* 119, 3149-60.
4. Li, N. et al. (2000) *Biochem Biophys Res Commun* 279, 487-93.
5. Pearce, M.M. et al. (2007) *J Biol Chem* 282, 20104-15.

### 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

### Cross-Reactivity Key

**H:** Human

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