

## Recombinant Mouse Erp44 Protein, Myc/DDK-tagged

Cat. No. Erp44-2869M Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length endoplasmic reticulum protein 44 (Erp44), with C-terminal MYC/DDK tag, expressed in HEK293T cells.   |
| <b>Species</b>          | Mouse  |
| <b>Source</b>           | HEK293   |
| <b>Description</b>      | Mediates thiol-dependent retention in the early secretory pathway, forming mixed disulfides with substrate proteins through its conserved CRFS motif. Inhibits the calcium channel activity of ITPR1. May have a role in the control of oxidative protein folding in the endoplasmic reticulum. Required to retain ERO1A and ERO1B in the endoplasmic reticulum. |
| <b>Molecular Mass</b>   | 46.9 kDa   |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.   |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method   |
| <b>Storage Buffer</b>   | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.  |

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## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | Erp44 endoplasmic reticulum protein 44 [ <i>Mus musculus</i> (house mouse) ]   |
| <b>Official Symbol</b> | Erp44  |
| <b>Synonyms</b>        | ERP44; endoplasmic reticulum protein 44; endoplasmic reticulum resident protein 44; ER protein 44; thioredoxin domain-containing protein 4; endoplasmic reticulum resident protein 44kDa; endoplasmic reticulum resident protein ERp44; thioredoxin domain containing 4 (endoplasmic reticulum); Txndc4; AI849526; AL033348; 1110001E24Rik |
| <b>Gene ID</b>         | 76299  |
| <b>mRNA Refseq</b>     | NM_029572  |
| <b>Protein Refseq</b>  | NP_083848  |
| <b>UniProt ID</b>      | Q9D1Q6   |

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