

Product datasheet

Recombinant Human ERO1L protein ab125981

概述

| | |
|------|---------------------------|
| 产品名称 | Recombinant人ERO1L protein |
| 蛋白长度 | Protein fragment |

描述

| | |
|-----------|-------------------------|
| 性质 | Recombinant |
| 来源 | Escherichia coli |
| 氨基酸序列 | |
| Accession | Q96HE7 |
| 种属 | Human |
| 分子量 | 18 kDa |
| 氨基酸 | 37 to 189 |
| 标签 | His-DHFR tag N-Terminus |

技术指标

Our [Abpromise guarantee](#) covers the use of **ab125981** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| | |
|----|-------------|
| 应用 | SDS-PAGE |
| 形式 | Lyophilised |

制备和贮存

| | |
|--------|--|
| 稳定性和存储 | Shipped at 4°C. Store at -20°C. Constituents: 0.32% Tris HCl, 0.58% Sodium chloride |
| 复溶 | Reconstitute with water to desired concentration. |

常规信息

| | |
|----|--|
| 功能 | Essential oxidoreductase that oxidizes proteins in the endoplasmic reticulum to produce disulfide bonds. Acts by oxidizing directly P4HB/PDI isomerase through a direct disulfide exchange. Does not act as a direct oxidant of folding substrate, but relies on P4HB/PDI to |
|----|--|

transfer oxidizing equivalent. Associates with ERP44 but not with GRP54, demonstrating that it does not oxidize all PDI related proteins and can discriminate between PDI and related proteins. Its reoxidation probably involves electron transfer to molecular oxygen via FAD. Acts independently of glutathione. May be responsible for a significant proportion of reactive oxygen species (ROS) in the cell, thereby being a source of oxidative stress. Required for the folding of immunoglobulin proteins. Responsible for the release of the unfolded cholera toxin from reduced P4HB/PDI in case of infection by V.cholerae, thereby playing a role in retrotranslocation of the toxin.

组织特异性

Widely expressed at low level. Expressed at high level in upper digestive tract. Highly expressed in esophagus. Weakly expressed in stomach and duodenum.

序列相似性

Belongs to the EROs family.

翻译后修饰

N-glycosylated.

The Cys-94/Cys-99 and Cys-394/Cys-397 disulfide bonds constitute the redox-active center. The Cys-94/Cys-99 disulfide bond may accept electron from P4HB and funnel them to the active site disulfide Cys-394/Cys-397.

细胞定位

Endoplasmic reticulum membrane. The association with ERP44 is essential for its retention in the endoplasmic reticulum.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors