abcam

Product datasheet

Recombinant Human ERO1L protein ab125981

概述

产品名称	重组人ERO1L蛋白
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 -20ºC. 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.

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