Anti-ERO1-Like Beta [M37-P5D11]

Catalogue number: 152603
Sub-type: Primary antibody
Images:

Contributor

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Institute: Vertebrate Antibodies Limited
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-ERO1-Like Beta [M37-P5D11]

Alternate name:

Class: Monoclonal
Conjugate: Unconjugated
Description: 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 being a source of oxidative stress. Required for the folding of cell, thereby being a source of oxidative stress.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype: IgG1 kappa
Reactivity: Human
Selectivity:
Host: Mouse
Immunogen: Peptide LAPSRGEDDG
Immunogen UNIPROT ID:
Sequence:
Growth properties:

Production details:
Formulation:
Recommended controls: WB - Jurkat whole cell lysate, IHC - formalin-fixed, paraffin-embedded human breast cancer
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: ERO1-Like Beta (ERO1LB)

Target alternate names:

Target background: 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 being a source of oxidative stress. Required for the folding of cell, thereby being a source of oxidative stress.

Molecular weight:

Ic50:

Applications

Application: ELISA ; IHC ; WB
Application notes:

Handling

Format: Liquid
Concentration: 1 mg/ml
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume:
Storage medium:
Storage buffer: PBS with 0.02% azide
Storage conditions: -15° C to -25° C
Shipping conditions:

Shipping at 4° C

Related tools

Related tools:

References

References: Jensen et al. 2003. J Steroid Biochem Mol Biol. 84(4):469-78. PMID: 12732292. ; Effect of antiestrogens and aromatase inhibitor on basal growth of the human breast cancer cell line MCF-7 in serum-free medium. ; Briand et al. 1986. Anticancer Res. 6(1):85-90. PMID: 3513694. ; Long-term cultivation of a human breast cancer cell line, MCF-7, in a chemically defined medium. Effect of estradiol.