

ERG25 Antibody (C-term) Blocking peptide

Synthetic peptide Catalog # BP13954b

Specification

ERG25 Antibody (C-term) Blocking peptide - Product Information

Primary Accession

Q15800

ERG25 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 6307

Other Names

Methylsterol monooxygenase 1, C-4 methylsterol oxidase, MSMO1, DESP4, ERG25, SC4MOL

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13954b was selected from the C-term region of ERG25. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ERG25 Antibody (C-term) Blocking peptide - Protein Information

Name MSMO1

Synonyms DESP4, ERG25, SC4MOL

Function

Catalyzes the three-step monooxygenation required for the demethylation of 4,4-dimethyl and 4alpha-methylsterols, which can be subsequently metabolized to cholesterol (PubMed:21285510, PubMed:28673550, PubMed:23583456, PubMed:26114596). Also involved in drug metabolism, as it can metabolize eldecalcitol (ED-71 or 1alpha,25-dihydroxy-2beta-(3-hydroxypropoxy)-cholecalciferol), a second- generation vitamin D analog, into 1alpha,2beta,25-trihydroxy vitamin D3; this reaction occurs via enzymatic hydroxylation and spontaneous O- dehydroxypropylation (PubMed:26038696).



Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein

ERG25 Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

Blocking Peptides

ERG25 Antibody (C-term) Blocking peptide - Images

ERG25 Antibody (C-term) Blocking peptide - Background

Sterol-C4-mehtyl oxidase-like protein was isolated basedon its similarity to the yeast ERG25 protein. It contains a set ofputative metal binding motifs with similarity to that seen in afamily of membrane desaturases-hydroxylases. The protein islocalized to the endoplasmic reticulum membrane and is believed tofunction in cholesterol biosynthesis. Alternatively splicedtranscript variants encoding distinct isoforms have been found forthis gene.

ERG25 Antibody (C-term) Blocking peptide - References

Lu, Y., et al. J. Lipid Res. 49(12):2582-2589(2008)Lim, J., et al. Cell 125(4):801-814(2006)Li, L., et al. J. Biol. Chem. 271(28):16927-16933(1996)