

ZMPSTE24 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19939b

Specification

ZMPSTE24 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O75844
Other Accession	Q80W54 , NP_005848.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54813
Antigen Region	404-433

ZMPSTE24 Antibody (C-term) - Additional Information

Gene ID 10269

Other Names

CAAX prenyl protease 1 homolog, Farnesylated proteins-converting enzyme 1, FACE-1, Prenyl protein-specific endoprotease 1, Zinc metalloproteinase Ste24 homolog, ZMPSTE24, FACE1, STE24

Target/Specificity

This ZMPSTE24 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 404-433 amino acids from the C-terminal region of human ZMPSTE24.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ZMPSTE24 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ZMPSTE24 Antibody (C-term) - Protein Information

Name ZMPSTE24 {ECO:0000303|PubMed:28246125, ECO:0000312|HGNC:HGNC:12877}

Function Transmembrane metalloprotease whose catalytic activity is critical for processing lamin A/LMNA on the inner nuclear membrane and clearing clogged translocons on the endoplasmic reticulum (PubMed:[33293369](#), PubMed:[33315887](#)). Proteolytically removes the C- terminal three residues of farnesylated proteins (PubMed:[33293369](#), PubMed:[33315887](#)). Also plays an antiviral role independently of its protease activity by restricting enveloped RNA and DNA viruses, including influenza A, Zika, Ebola, Sindbis, vesicular stomatitis, cowpox, and vaccinia (PubMed:[28169297](#), PubMed:[28246125](#)). Mechanistically, controls IFITM antiviral pathway to hinder viruses from breaching the endosomal barrier by modulating membrane fluidity (PubMed:[35283811](#)).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Nucleus inner membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein

Tissue Location

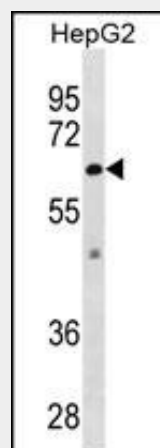
Widely expressed. High levels in kidney, prostate, testis and ovary.

ZMPSTE24 Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ZMPSTE24 Antibody (C-term) - Images



ZMPSTE24 Antibody (C-term) (Cat. #AP19939b) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the ZMPSTE24 antibody detected the ZMPSTE24 protein (arrow).

ZMPSTE24 Antibody (C-term) - Background

This gene encodes a member of the peptidase M48A family. The encoded protein is a zinc metalloproteinase involved in the two step post-translational proteolytic cleavage of carboxy terminal

residues of farnesylated prelamin A to form mature lamin A. Mutations in this gene have been associated with mandibuloacral dysplasia and restrictive dermopathy.

ZMPSTE24 Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Miner, J.H. Am. J. Med. Genet. A 152A (8), 2140-2141 (2010) :
Smigiel, R., et al. Am. J. Med. Genet. A 152A (2), 447-452 (2010) :
Fontaine-Bisson, B., et al. J. Mol. Med. 88(2):193-201(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)