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LAGE3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP4956c

Specification

LAGE3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q14657

LAGE3 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 8270

Other Names
EKC/KEOPS complex subunit LAGE3, L antigen family member 3, Protein ESO-3, Protein ITBA2, LAGE3, DXS9879E, ESO3, ITBA2

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.

LAGE3 Antibody (Center) Blocking Peptide - Protein Information

Name LAGE3 (HGNC:26058)

Function
Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine (PubMed:22912744, PubMed:27903914). The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37 (PubMed:22912744, PubMed:27903914). LAGE3 functions as a dimerization module for the complex (PubMed:22912744, PubMed:27903914).

Cellular Location
Cytoplasm. Nucleus

Tissue Location
Ubiquitous.

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LAGE3 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

LAGE3 Antibody (Center) Blocking Peptide - Images

LAGE3 Antibody (Center) Blocking Peptide - Background

LAGE3 belongs to the ESO/LAGE gene family, members of which are clustered together on chromosome Xq28, and have similar exon-intron structures. Unlike the other family members which are normally expressed only in testis and activated in a wide range of human tumors, this gene is ubiquitously expressed in somatic tissues. The latter, combined with the finding that it is highly conserved in mouse and rat, suggests that the encoded protein is functionally important. An intronless pseudogene with high sequence similarity to this gene is located on chromosome 9.

LAGE3 Antibody (Center) Blocking Peptide - References

Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) Ross, M.T., et al. Nature 434(7031):325-337(2005)Alpen, B., et al. Gene 297 (1-2), 141-149 (2002)