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HBS1L Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP18556c

Specification

HBS1L Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9Y450

HBS1L Antibody (Center) Blocking Peptide - Additional Information

Gene ID 10767

Other Names
HBS1-like protein, ERFS, HBS1L, HBS1, KIAA1038

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.

HBS1L Antibody (Center) Blocking Peptide - Protein Information

Name HBS1L {ECO:0000303|PubMed:28204585, ECO:0000312|HGNC:HGNC:4834}

Function
GTPase component of the Pelota-HBS1L complex, a complex that recognizes stalled ribosomes and triggers the No-Go Decay (NGD) pathway (PubMed:21448132, PubMed:23667253, PubMed:27863242). The Pelota-HBS1L complex recognizes ribosomes stalled at the 3' end of an mRNA and engages stalled ribosomes by destabilizing mRNA in the mRNA channel (PubMed:27863242). Following mRNA extraction from stalled ribosomes by the SKI complex, the Pelota-HBS1L complex promotes recruitment of ABCE1, which drives the disassembly of stalled ribosomes, followed by degradation of damaged mRNAs as part of the NGD pathway (PubMed:21448132, PubMed:32006463).

Cellular Location
Cytoplasm.

Tissue Location

Detected in heart, brain, placenta, liver, muscle, kidney and pancreas.

HBS1L Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

HBS1L Antibody (Center) Blocking Peptide - Images

HBS1L Antibody (Center) Blocking Peptide - Background

This gene encodes a member of the GTP-binding elongationfactor family. It is expressed in multiple tissues with the highestexpression in heart and skeletal muscle. The intergenic region ofthis gene and the MYB gene has been identified to be a quantitativetrait locus (QTL) controlling fetal hemoglobin level, and thisregion influnces erythrocyte, platelet, and monocyte counts as wellas erythrocyte volume and hemoglobin content. DNA polymorphisms atthis region associate with fetal hemoglobin levels and pain crisesin sickle cell disease. A single nucleotide polymorphism in exon 1of this gene is significantly associated with severity inbeta-thalassemia/Hemoglobin E. Multiple alternatively splicedtranscript variants encoding different protein isoforms have beenfound for this gene.

HBS1L Antibody (Center) Blocking Peptide - References

Nuinoon, M., et al. Hum. Genet. 127(3):303-314(2010)Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010)Nuinoon, M., et al. Hum. Genet. (2009) In press :Ganesh, S.K., et al. Nat. Genet. 41(11):1191-1198(2009)Ferreira, M.A., et al. Am. J. Hum. Genet. 85(5):745-749(2009)