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FRG1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16673b

Specification

FRG1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q14331

FRG1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 2483

Other Names
Protein FRG1, FSHD region gene 1 protein, FRG1

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.

FRG1 Antibody (C-term) Blocking Peptide - Protein Information

Name FRG1 (HGNC:3954)

Function
Binds to mRNA in a sequence-independent manner. May play a role in regulation of pre-mRNA splicing or in the assembly of rRNA into ribosomal subunits. May be involved in mRNA transport. May be involved in epigenetic regulation of muscle differentiation through regulation of activity of the histone-lysine N-methyltransferase KMT5B.

Cellular Location
Nucleus, Cajal body. Nucleus, nucleolus. Cytoplasm. Cytoplasm, myofibril, sarcomere, Z line. Note=Localization changes during myogenesis from mainly cytoplasmic in undifferentiated myoblasts, to strongly nucleolar in early myotubes and back to cytoplasmic 5 days post-differentiation (PubMed:20970242). Localized at the Z-line in the sarcomere of matured myotubes 8 days post-differentiation (PubMed:20970242).

Tissue Location
Expressed in adult muscle, lymphocytes, fetal brain, muscle, and placenta. Also expressed in the smooth muscle of arteries and veins, the sweat glands and the epidermis

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FRG1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

FRG1 Antibody (C-term) Blocking Peptide - Images

FRG1 Antibody (C-term) Blocking Peptide - Background

This gene maps to a location 100 kb centromeric of therepeat units on chromosome 4q35 which are deleted infacioscapulohumeral muscular dystrophy (FSHD). It is evolutionarilyconserved and has related sequences on multiple human chromosomesbut DNA sequence analysis did not reveal any homology to knowngenes. In vivo studies demonstrate the encoded protein is localizedto the nucleolus.

FRG1 Antibody (C-term) Blocking Peptide - References

Hanel, M.L., et al. Dev. Dyn. 238(6):1502-1512(2009)Bodega, B., et al. BMC Biol. 7, 41 (2009) :Pirozhkova, I., et al. PLoS ONE 3 (10), E3389 (2008) :Lamesch, P., et al. Genomics 89(3):307-315(2007)Gabellini, D., et al. Nature 439(7079):973-977(2006)