10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SMG5 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP19361b

Specification

SMG5 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9UPR3

SMG5 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 23381

Other Names
Protein SMG5, EST1-like protein B, LPTS-RP1, LPTS-interacting protein, SMG-5 homolog, hSMG-5, SMG5, EST1B, KIAA1089

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.

SMG5 Antibody (C-term) Blocking Peptide - Protein Information

Name SMG5 (HGNC:24644)

Function
Plays a role in nonsense-mediated mRNA decay. Does not have RNase activity by itself. Promotes dephosphorylation of UPF1. Together with SMG7 is thought to provide a link to the mRNA degradation machinery involving exonucleolytic pathways, and to serve as an adapter for UPF1 to protein phosphatase 2A (PP2A), thereby triggering UPF1 dephosphorylation. Necessary for TERT activity.

Cellular Location
Cytoplasm. Nucleus. Note=Predominantly cytoplasmic, and nuclear. Shuttles between nucleus and cytoplasm. Detected in cytoplasmic mRNA decay bodies

Tissue Location
Ubiquitous.

SMG5 Antibody (C-term) Blocking Peptide - Protocols

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

- Blocking Peptides

SMG5 Antibody (C-term) Blocking Peptide - Images

SMG5 Antibody (C-term) Blocking Peptide - Background

SMG5 is involved in nonsense-mediated mRNA decay (Ohnishiet al., 2003 [PubMed 14636577]).

SMG5 Antibody (C-term) Blocking Peptide - References

Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010)Glavan, F., et al. EMBO J. 25(21):5117-5125(2006)Lee, H., et al. Mol. Cell. Biol. 26(14):5259-5269(2006)Azzalin, C.M., et al. Curr. Biol. 16(4):433-439(2006)Unterholzner, L., et al. Mol. Cell 16(4):587-596(2004)