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Smg-2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP1970a

Specification

Smg-2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O76512

Smg-2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 171696

Other Names
Regulator of nonsense transcripts 1, 364-, ATP-dependent helicase smg-2, Nonsense mRNA reducing factor 1, Up-frameshift suppressor 1 homolog, smg-2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1970a was selected from the N-term region of human Smg-2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Smg-2 Antibody (N-term) Blocking Peptide - Protein Information

Name smg-2

Function
RNA-dependent helicase required for nonsense-mediated decay (NMD) of aberrant mRNAs containing premature stop codons and modulates the expression level of normal mRNAs. Is recruited to mRNAs upon translation termination and undergoes a cycle of phosphorylation and dephosphorylation; its phosphorylation appears to be a key step in NMD. The formation of an smg-2-3-4 surveillance complex is believed to activate NMD (By similarity).

Cellular Location
Cytoplasm.

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Smg-2 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Smg-2 Antibody (N-term) Blocking Peptide - Images

Smg-2 Antibody (N-term) Blocking Peptide - Background

Smg-2 eliminates the production of nonsense-containing RNAs. This protein is phosphorylated probably by smg-1. Smg-3 and smg-4 are required for phosphorylation.

Smg-2 Antibody (N-term) Blocking Peptide - References

Grimson, A. et al. Mol Cell Biol. 2004. 24(17):7483-90. Domeier, ME et al. Science. 2000. 289(5486):1928-31. Page, MF et al. Mol Cell Biol. 1999. 19(9):5943-51.