

NSMCE1 Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP18369b

Specification

NSMCE1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession

Q8WV22

NSMCE1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 197370

Other Names

Non-structural maintenance of chromosomes element 1 homolog, Non-SMC element 1 homolog, 632-, NSMCE1

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.

NSMCE1 Antibody (C-term) Blocking Peptide - Protein Information

Name NSMCE1 (HGNC:29897)

Function

RING-type zinc finger-containing E3 ubiquitin ligase that assembles with melanoma antigen protein (MAGE) to catalyze the direct transfer of ubiquitin from E2 ubiquitin-conjugating enzyme to a specific substrate. Within MAGE-RING ubiquitin ligase complex, MAGE stimulates and specifies ubiquitin ligase activity likely through recruitment and/or stabilization of the E2 ubiquitin-conjugating enzyme at the E3:substrate complex. Involved in maintenance of genome integrity, DNA damage response and DNA repair (PubMed: 29225034, PubMed:20864041). NSMCE3/MAGEG1 and NSMCE1 ubiquitin ligase are components of SMC5-SMC6 complex and may positively regulate homologous recombination-mediated DNA repair (PubMed: 18086888). MAGEF1-NSMCE1 ubiquitin ligase promotes proteasomal degradation of MMS19, a key component of the cytosolic iron-sulfur protein assembly (CIA) machinery. Down-regulation of MMS19 impairs the activity of several DNA repair and metabolism enzymes such as ERCC2/XPD, FANCJ, RTEL1 and POLD1 that require iron-sulfur clusters as cofactors (PubMed:29225034).



Cellular LocationNucleus. Chromosome, telomere

NSMCE1 Antibody (C-term) Blocking Peptide - Protocols

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

Blocking Peptides

NSMCE1 Antibody (C-term) Blocking Peptide - Images

NSMCE1 Antibody (C-term) Blocking Peptide - Background

Probable component of the SMC5-SMC6 complex, a complex involved in DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks (By similarity).

NSMCE1 Antibody (C-term) Blocking Peptide - References

Fujioka, Y., et al. J. Biol. Chem. 277(24):21585-21591(2002)