

NSMCE1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57534**Specification****NSMCE1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8WV22
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	30855

NSMCE1 Polyclonal Antibody - Additional Information**Gene ID** 197370**Other Names**

Non-structural maintenance of chromosomes element 1 homolog, Non-SMC element 1 homolog, 2.3.2.27, NSMCE1 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=29897)
target="_blank">HGNC:29897)

Dilution

IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
ICC~~N/A
E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

NSMCE1 Polyclonal Antibody - 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:[20864041](http://www.uniprot.org/citations/20864041), PubMed:[29225034](http://www.uniprot.org/citations/29225034)). NSMCE3/MAGEG1 and NSMCE1 ubiquitin ligase are components of SMC5-SMC6 complex and may positively regulate homologous recombination-mediated DNA repair (PubMed:[20864041](#))

[18086888](http://www.uniprot.org/citations/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, FANCI, RTEL1 and POLD1 that require iron-sulfur clusters as cofactors (PubMed: [29225034](http://www.uniprot.org/citations/29225034)).

Cellular Location

Nucleus. Chromosome, telomere

NSMCE1 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NSMCE1 Polyclonal Antibody - Images