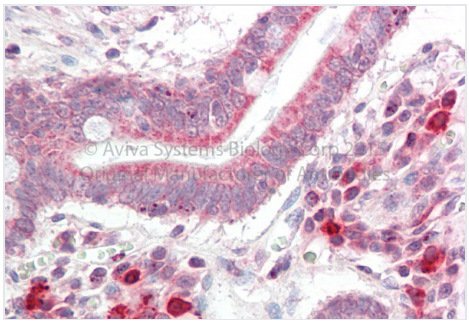
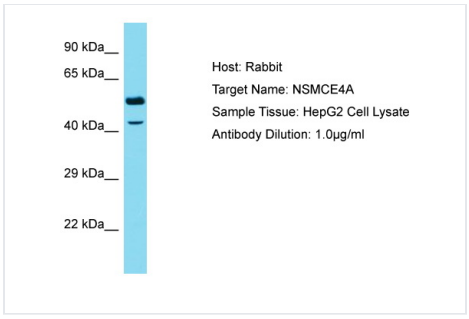
NSMCE4A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NSMCE4A, Polyclonal Antibody
Full Product Name	NSMCE4A Antibody - C-terminal region
Product Gene Name	anti-NSMCE4A antibody
Product Synonym Gene Name	C10orf86; NS4EA; NSE4A
Immunogen Sequence	Synthetic peptide located within the following region: NEENEGFEHN TQVRNQGIIA LSYRDWEIVK TFEISEPVIT PSQRQQKPSA
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	NSMCE4A peptide (MBS3243575) is used for blocking the activity of NSMCE4A antibody (MBS3218682)
Molecular Weight	42kDa
OMIM	612987
3D Structure	ModBase 3D Structure for Q9NXX6
Homology	Human: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the C-terminal region of Human NSMCE4A
Product Categories/Family for anti-NSMCE4A antibody	Polyclonal; DNA Damage & Repair; DNA/RNA/Protein Interactions; Meiosis/Mitosis/Cell Cycle
Applications Tested/Suitable for anti-NSMCE4A antibody	Western Blot (WB)
Related Product Information for anti-NSMCE4A antibody	This is a rabbit polyclonal antibody against NSMCE4A. It was validated on Western Blot Target Description: NSMCE4A is a 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. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). It is involved in positive regulation of response to DNA damage stimulus.
Other Notes	Small volumes of anti-NSMCE4A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NSMCE4A purchase	MBS3218682 is an antibody targeting NSMCE4A. Also known as NSMCE4A Antibody - C-terminal region. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-NSMCE4A antibody
Rabbit Anti-NSMCE4A AntibodyFormalin Fixed Paraffin Embedded Tissue: Human Adult Small intestineObserved Staining: Cytoplasm in hepatocytesPrimary Antibody Concentration: 1:600Secondary Antibody: Donkey anti-Rabbit-Cy3Secondary Antibody Concentration: 1:200Magnification: 20XExposure Time: 0.5 - 2.0 sec



Western Blot (WB) of anti-NSMCE4A antibody
Host: RabbitTarget Name: NSMCE4ASample Type: HepG2 Whole Cell lysatesAntibody Dilution: 1.0ug/mlNSMCE4A is strongly supported by BioGPS gene expression data to be expressed in Human HepG2 cells

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NSMCE4A. It may not necessarily be applicable to this product.

NCBI GI #	269846910
NCBI GeneID	54780
NCBI Accession #	NP_001161337
UniProt Primary Accession #	Q9NXX6
UniProt Related Accession #	Q9NXX6
GenBank Nucleotide #	NM_001167865
NCBI Official Full Name	non-structural maintenance of chromosomes element 4 homolog A isoform 2
NCBI Official Synonym Full Names	NSE4 homolog A, SMC5-SMC6 complex component
NCBI Official Symbol	NSMCE4A
NCBI Official Synonym Symbols	NS4EA; NSE4A; C10orf86
UniProt Protein Name	Non-structural maintenance of chromosomes element 4 homolog A
UniProt Gene Name	NSMCE4A
UniProt Synonym Gene Names	C10orf86; NS4EA
UniProt Entry Name	NSE4A_HUMAN
NCBI Protein Information	non-structural maintenance of chromosomes element 4 homolog A
UniProt Comments for NSMCE4A	Function: 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. The complex is required for telomere maintenance via recombination in ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin complex (telosome) components which is proposed to lead to shelterin complex disassembly in ALT-associated PML bodies (APBs). Is involved in positive regulation of response to DNA damage stimulus. Ref.7 Subunit structure: Component of the SMC5-SMC6 complex which consists at least of SMC5, SMC6, NSMCE2, NSMCE1, NSMCE4A or EID3 and NDNL2. NSMCE1, NSMCE4A or EID3 and NDNL2 probably form a subcomplex that bridges the head domains of the SMC5:SMC6 heterodimer. Ref.7 Subcellular location: Nucleus. Chromosome › telomere Probable Ref.7. Sequence similarities: Belongs to the NSE4 family.

Research Articles on NSMCE4A	**1.** TRIM31 directly binds to NSE4, suggesting the existence of a TRIM31-MAGEA1-NSE4 complex reminiscent of the NSE1-NSE3-NSE4 trimer.
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