Mouse NSMCE2 Monoclonal Antibody | anti-NSMCE2 antibody

NSMCE2 antibody

CATALOG #	HOST	APPLICATIONS
AAA107181	**Mouse**	**Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

NSMCE2; Monoclonal Antibody; NSMCE2 antibody; Monoclonal NSMCE2; Anti-NSMCE2; Non-Smc Element 2 Mms21 Homolog; C8orf36; FLJ32440; MMS21; NSE2; NSMCE 2; NSMCE-2; anti-NSMCE2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3C10
Purity/Purification	NSMCE2 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	247
Applicable Applications for anti-NSMCE2 antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	NSMCE2 is the E3 SUMO-protein ligase 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. NSMCE2 acts as a E3 ligase mediating SUMO attachment to various proteins such as SMC6L1 and TRAX, and maybe the cohesin components RAD21 and STAG2. SUMO protein-ligase activity is required for the prevention of DNA damage-induced apoptosis by facilitating DNA repair.
Cross-Reactivity	Human
Immunogen	NSMCE2 antibody was raised in mouse using a full length recombinant protein of human NSMCE2 (NP_775956) produced in E Coli as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES

IF (Immunofluorescence)
Immunofluorescent staining of COS7 cells transiently transfected with recombinant NSMCE2 protein using NSMCE2 antibody

WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant NSMCE2 protein (Right) or empty vector (Left) detected with NSMCE2 antibody

FCM/FACS (Flow Cytometry)
Flow Cytometric analysis of HEK293T cells transfected with either recombinant NSMCE2 protein (red) or empty vector (blue) stained using NSMCE2 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-NSMCE2 antibody	Mouse monoclonal NSMCE2 antibody
Product Categories/Family for anti-NSMCE2 antibody	Protein Modification & Stress Response

NCBI AND UNIPROT INFORMATION

NCBI GI #	27734761
NCBI GeneID	286053
NCBI Accession #	NP_775956
NCBI GenBank Nucleotide #	NM_173685.2
UniProt Accession #	Q96MF7; Q8N549
Molecular Weight	27,932 Da
NCBI Official Full Name	E3 SUMO-protein ligase NSE2
NCBI Official Synonym Full Names	non-SMC element 2, MMS21 homolog (S. cerevisiae)
NCBI Official Symbol	NSMCE2
NCBI Official Synonym Symbols	NSE2; MMS21; ZMIZ7; C8orf36
NCBI Protein Information	E3 SUMO-protein ligase NSE2
UniProt Protein Name	E3 SUMO-protein ligase NSE2
UniProt Gene Name	**NSMCE2**
UniProt Synonym Gene Names	C8orf36; MMS21; hMMS21; Non-SMC element 2 homolog
UniProt Entry Name	NSE2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/monoclonal/nsmce2-antibody-clone-3c10-western-blot-immunofluorescence-flow-cytometry-elisa/107181