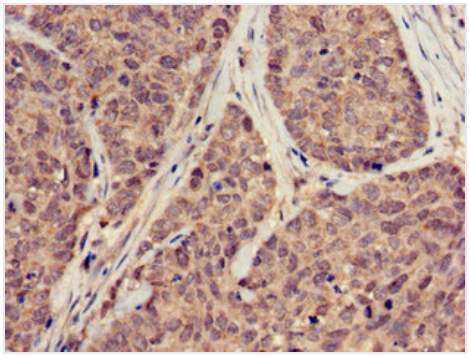
SUMO3 Antibody – Rabbit Polyclonal

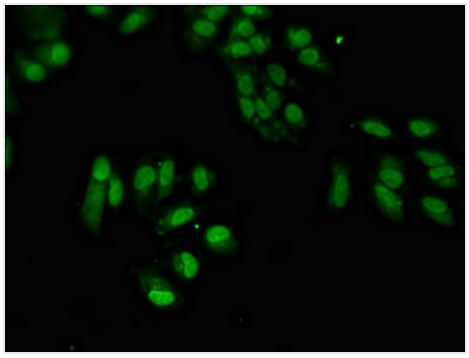
PRODUCT OVERVIEW

Product Name	SUMO3, Polyclonal Antibody
Full Product Name	SUMO3 Antibody
Product Gene Name	anti-SUMO3 antibody
Product Synonym Names	Small ubiquitin-related modifier 3; SUMO-3; SMT3 homolog 1; SUMO3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: SUMO3 (MBS7052525) HRP Conjugated Antibody: SUMO3 (MBS7052526)
Matching Pairs	Unconjugated Antibody: SUMO3 (MBS7052525) FITC Conjugated Antibody: SUMO3 (MBS7052527)
Matching Pairs	Unconjugated Antibody: SUMO3 (MBS7052525) Biotin Conjugated Antibody: SUMO3 (MBS7052528)
Molecular Weight	15,768 Da
OMIM	X99584 mRNA
3D Structure	ModBase 3D Structure for P55854
Immunogen	Recombinant Human Small ubiquitin-related modifier 3 protein (1-92AA)
Conjugation	Non-conjugated
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SUMO3 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-SUMO3 antibody	IHC: 1:20-1:200 IF: 1:50-1:200
Related Product Information for anti-SUMO3 antibody	Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Covalent attachment to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4 (PubMed:11451954, PubMed:18538659, PubMed:21965678). Plays a role in the regulation of sumoylation status of SETX (PubMed:24105744).

Other Notes	Small volumes of anti-SUMO3 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 SUMO3 purchase	MBS7052525 is an antibody targeting SUMO3. Also known as SUMO3 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-SUMO3 antibody
Immunohistochemistry of paraffin-embedded human ovarian cancer using MBS7052525 at dilution of 1:100



Immunofluorescence (IF) of anti-SUMO3 antibody
Immunofluorescent analysis of Hela cells using MBS7052525 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SUMO3. It may not necessarily be applicable to this product.

NCBI GI #	556695502
NCBI GeneID	6612
NCBI Accession #	NP_001273345.1
UniProt Primary Accession #	P55854
UniProt Secondary Accession #	Q53HI9; Q6FGD4; Q9BWR4; B2R5X4; B4DUW4
UniProt Related Accession #	P55854
GenBank Nucleotide #	NM_001286416.1
NCBI Official Full Name	small ubiquitin-related modifier 3 isoform 2
NCBI Official Synonym Full Names	small ubiquitin-like modifier 3
NCBI Official Symbol	SUMO3
NCBI Official Synonym Symbols	SMT3A; Smt3B; SMT3H1; SUMO-3
UniProt Protein Name	Small ubiquitin-related modifier 3
UniProt Synonym Protein Names	SMT3 homolog 1
Protein Family	Small ubiquitin-related modifier
UniProt Gene Name	SUMO3
UniProt Synonym Gene Names	Smt3A
NCBI Protein Information	small ubiquitin-related modifier 3
NCBI Summary for SUMO3	This gene encodes a member of the small ubiquitin-related modifier (SUMO) family of eukaryotic proteins. The encoded protein is covalently conjugated to other proteins via a post-translation modification known as sumoylation. Sumoylation may play a role in a wide variety of cellular processes, including nuclear transport, DNA replication and repair, mitosis, transcriptional regulation, and signal transduction. Alternatively spliced transcript variants encoding distinct proteins have been described. [provided by RefSeq, Feb 2014]

UniProt Comments for SUMO3	SUMO3: Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Covalent attachment to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4. Covalently attached to a number of proteins. Interacts with USP25 (via ts SIM domain); the interaction sumoylates USP25 and inhibits its ubiquitin hydrolyzing activity. Interacts with SAE2 and UBE2I. Expressed predominantly in liver. Belongs to the ubiquitin family. SUMO subfamily. Protein type: Ubiquitin-like modifier Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: kinetochore; nucleoplasm; nucleus Molecular Function: protein binding; protein tag Biological Process: protein sumoylation
Research Articles on SUMO3	**1.** The adenovirus E4-ORF3 protein functions as a SUMO E3 ligase for TIF-1gamma sumoylation and poly-SUMO chain elongation.
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