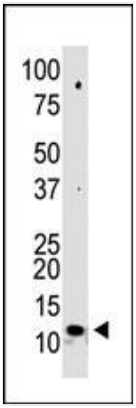
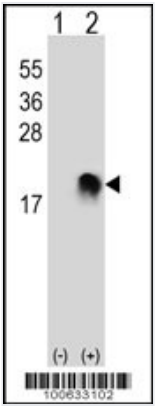
SUMO2, SUMO3 (SUMO2/3) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SUMO2, SUMO3 (SUMO2/3), Polyclonal Antibody
Full Product Name	SUMO2, SUMO3, NT (SUMO2/3, Small Ubiquitin-like Modifier 2, Small Ubiquitin-related Modifier 2, Sumo 2, Sumo-2, Small Ubiquitin-like Modifier Protein 3, Small Ubiquitin-related Modifier 3, Sumo 3, Sumo-3, HSMT3, MGC117191, Sentrin 2, Sentrin-2, SMT3 Homol
Product Gene Name	anti-SUMO2/3 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human SUMO2/3.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	8,111 Da
OMIM	603042
3D Structure	ModBase 3D Structure for P61956
Immunogen	Synthetic peptide selected from the N-terminal region of human SUMO2 (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-SUMO2/3 antibody	Antibodies; Ubiquitin
Applications Tested/Suitable for anti-SUMO2/3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SUMO2/3 antibody	WB: 1:100-1:500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SUMO2/3 antibody	MBS6501579 is an antibody targeting SUMO2/3. Also known as SUMO2, SUMO3, NT (SUMO2/3, Small Ubiquitin-like Modifier 2, Small Ubiquitin-related Modifier 2, Sumo 2, Sumo-2, Small Ubiquitin-like Modifier Protein 3, Small Ubiquitin-related Modifier 3, Sumo 3, Sumo-3, HSMT3, MGC117191, Sentrin 2, Sentrin-2, SMT3 Homol. Reactive in Human. Host: Rabbit.
Product References and Citations for anti-SUMO2/3 antibody	1. Strausberg, R.L., et al., Proc. Natl. Acad. Sci. USA 99(26):16899-16903 (2002). 2. Lapenta, V., et al., Genomics 40(2):362-366 (1997). 3. Mannen, H., et al., Biochem. Biophys. Res. Commun. 222(1):178-180 (1996).
Other Notes	Small volumes of anti-SUMO2/3 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.



Western Blot (WB) of anti-SUMO2/3 antibody
Western blot analysis of anti-SUMO2/3 N-term polyclonal antibody in 293 cell lysate. Sumo2/3 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



Western Blot (WB) of anti-SUMO2/3 antibody
Western blot analysis of SUMO2/3 (arrow) using rabbit polyclonal SUMO2/3 Antibody (M1). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SUMO2/3 gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SUMO2/3. It may not necessarily be applicable to this product.

NCBI GI #	54792069
NCBI GeneID	6613
NCBI Accession #	NP_008868
UniProt Primary Accession #	P61956
UniProt Secondary Accession #	P55855; Q32Q42; Q6IPZ6; Q96HK1; B2R4I2
UniProt Related Accession #	P61956
GenBank Nucleotide #	NM_006937.3
NCBI Official Full Name	small ubiquitin-related modifier 2 isoform a
NCBI Official Synonym Full Names	small ubiquitin-like modifier 2
NCBI Official Symbol	SUMO2
NCBI Official Synonym Symbols	HSMT3; SMT3B; SUMO3; Smt3A; SMT3H2
UniProt Protein Name	Small ubiquitin-related modifier 2
UniProt Synonym Protein Names	HSMT3; SMT3 homolog 2; SUMO-3; Sentrin-2; Ubiquitin-like protein SMT3A
UniProt Gene Name	SUMO2
UniProt Synonym Gene Names	SMT3A; SMT3H2; SUMO-2; Smt3A
UniProt Entry Name	SUMO2_HUMAN
NCBI Protein Information	small ubiquitin-related modifier 2
NCBI Summary for SUMO2/3	This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last two amino acids of the carboxy-terminus have been cleaved off. Numerous pseudogenes have been reported for this gene. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

UniProt Comments for SUMO2/3	SUMO2: Ubiquitin-like protein that can be covalently attached to proteins as a monomer or as a lysine-linked polymer. Covalent attachment via an isopeptide bond 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. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Polymeric SUMO2 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. Homotrimer (Potential). Crystal packing analysis suggests a possible trimeric assembly, of which the biological significance remains to be determined. Interacts with SAE2 and UBE2I. Covalently attached to a number of proteins. Interacts with PELP1. Interacts with USP25; the interaction sumoylates USP25. Broadly expressed. Belongs to the ubiquitin family. SUMO subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ubiquitin-like modifier Chromosomal Location of Human Ortholog: 17q25.1 Cellular Component: nucleoplasm; PML body; nucleus Molecular Function: protein binding; ubiquitin protein ligase binding Biological Process: cellular protein metabolic process; protein sumoylation; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; post-translational protein modification
Research Articles on SUMO2/3	**1.** We further show that the SUMO2 pathway acts independently of exogenous C-MYC expression and in parallel with small-molecule enhancers of reprogramming. Importantly, suppression of SUMO2 also promotes the generation of human induced pluripotent stem cells .
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-sumo2-3-human-antibody/sumo2-sumo3/6501579