SART3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SART3, Polyclonal Antibody
Full Product Name	SART3 Antibody, FITC conjugated
Product Gene Name	anti-SART3 antibody
Product Synonym Names	Squamous cell carcinoma antigen recognized by T-cells 3Curated; SART-3Imported; SART3; Tat-interacting protein of 110 kDa1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
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: SART3 (MBS1494822) FITC Conjugated Antibody: SART3 (MBS1497789)
Molecular Weight	105,584 Da
OMIM	175900
3D Structure	ModBase 3D Structure for Q15020
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	FITC
Immunogen	Recombinant human Squamous cell carcinoma antigen recognized by T-cells 3 protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SART3 antibody	ELISA (EIA)
Related Product Information for anti-SART3 antibody	U6 snRNP-binding protein that functions as a recycling factor of the splicing machinery. Promotes the initial reassembly of U4 and U6 snRNPs following their ejection from the spliceosome during its maturation (PubMed:12032085). Also binds U6atac snRNPs and may function as a recycling factor for U4atac/U6atac spliceosomal snRNP, an initial step in the assembly of U12-type spliceosomal complex. The U12-type spliceosomal complex plays a role in the splicing of introns with non-canonical splice sites (PubMed:14749385). May also function as a substrate-targeting factor for deubiquitinases like USP4 and USP15. Recruits USP4 to ubiquitinated PRPF3 within the U4/U5/U6 tri-snRNP complex, promoting PRPF3 deubiquitination and thereby regulating the spliceosome U4/U5/U6 tri-snRNP spliceosomal complex disassembly (PubMed:20595234). May also recruit the deubiquitinase USP15 to histone H2B and mediate histone deubiquitination, thereby regulating gene expression and/or DNA repair (PubMed:24526689). May play a role in hematopoiesis probably through transcription regulation of specific genes including MYC (By similarity).
Other Notes	Small volumes of anti-SART3 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 SART3 purchase	MBS1497789 is an antibody targeting SART3. Also known as SART3 Antibody, FITC conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SART3. It may not necessarily be applicable to this product.

NCBI GI #	7661952
NCBI GeneID	9733
NCBI Accession #	NP_055521.1
UniProt Primary Accession #	Q15020
UniProt Secondary Accession #	Q2M2H0; Q58F06; Q8IUS1; Q96J95; A8K2E4; B7ZKM0
UniProt Related Accession #	Q15020
GenBank Nucleotide #	NM_014706.3
NCBI Official Full Name	squamous cell carcinoma antigen recognized by T-cells 3
NCBI Official Synonym Full Names	squamous cell carcinoma antigen recognized by T-cells 3
NCBI Official Symbol	SART3
NCBI Official Synonym Symbols	P100; p110; DSAP1; TIP110; p110(nrb); RP11-13G14
UniProt Protein Name	Squamous cell carcinoma antigen recognized by T-cells 3
UniProt Synonym Protein Names	Tat-interacting protein of 110 kDa
Protein Family	Squamous cell carcinoma antigen
UniProt Gene Name	SART3
UniProt Synonym Gene Names	Tip110
UniProt Entry Name	SART3_HUMAN
NCBI Protein Information	squamous cell carcinoma antigen recognized by T-cells 3
NCBI Summary for SART3	The protein encoded by this gene is an RNA-binding nuclear protein that is a tumor-rejection antigen. This antigen possesses tumor epitopes capable of inducing HLA-A24-restricted and tumor-specific cytotoxic T lymphocytes in cancer patients and may be useful for specific immunotherapy. This gene product is found to be an important cellular factor for HIV-1 gene expression and viral replication. It also associates transiently with U6 and U4/U6 snRNPs during the recycling phase of the spliceosome cycle. This encoded protein is thought to be involved in the regulation of mRNA splicing. [provided by RefSeq, Jul 2008]

UniProt Comments for SART3	SART3: a ubiquitously expressed protein in proliferating cells. A component of the 7SK snRNP complex composed of P-TEFb (composed of CDK9 and CCNT1), HEXIM1, HEXIM2, BCDIN3, SART3 proteins and 7SK and U6 snRNAs. Transiently associates with the U6 and U4/U6 snRNPs during the spliceosome cycle, helping to regenerate functional U4/U6 snRNPs complexes. Expressed in the nucleus of all of malignant tumor cell lines tested and the majority of cancer tissues with various histologies, including squamous cell carcinomas, adenocarcinomas, melanomas and leukemias. However, this protein is undetectable in the nucleus of nonmalignant cell lines or normal tissues, except for the testis. Expressed in the cytoplasm of all proliferating cells, including normal and malignant cells, but not in most cells of normal tissues, except for the testis and the fetal liver. Regulates Tat transactivation activity through direct interaction. May be a cellular factor for HIV-1 gene expression and viral replication. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription regulation; RNA-binding; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 12q24.1 Cellular Component: Cajal body; cytoplasm; nuclear speck; nucleoplasm; nucleus; U4/U6 x U5 tri-snRNP complex Molecular Function: histone binding; nucleotide binding; protein binding; U4 snRNA binding; U6 snRNA binding; U6atac snRNA binding Biological Process: assembly of spliceosomal tri-snRNP; cell morphogenesis; homeostasis of number of cells; nuclear mRNA splicing, via spliceosome; nucleosome assembly; regulation of gene expression; spliceosomal snRNP biogenesis; spliceosome assembly Disease: Porokeratosis 3, Disseminated Superficial Actinic Type
Research Articles on SART3	**1.** Hypoxia led to Tip110 protein degradation through the ubiquitin-proteasome system. Under hypoxia, Tip110 stabilized p53, which in return destabilized Tip110.
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