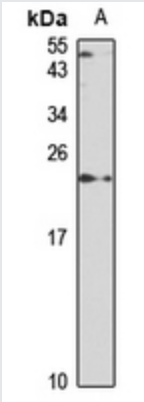
SAT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SAT1, Polyclonal Antibody
Full Product Name	Anti-SAT1 Antibody
Product Gene Name	anti-SAT1 antibody
Product Synonym Names	SAT; Diamine acetyltransferase 1; Polyamine N-acetyltransferase 1; Putrescine acetyltransferase; Spermidine/spermine N(1)-acetyltransferase 1; SSAT; SSAT-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
OMIM	308800
3D Structure	ModBase 3D Structure for P21673
Immunogen	Recombinant fusion protein of human SAT1. The exact sequence is proprietary.
Product Categories/Family for anti-SAT1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SAT1 antibody	Western Blot (WB)
Application Notes for anti-SAT1 antibody	WB: 1:500-1:2000
Related Product Information for anti-SAT1 antibody	MBS8605762 is an antibody targeting SAT1. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to SAT1
Other Notes	Small volumes of anti-SAT1 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-SAT1 antibody
Western blot analysis of SAT1 expression in THP1 (A) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SAT1. It may not necessarily be applicable to this product.

NCBI GI #	4506789
NCBI GeneID	6303
NCBI Accession #	NP_002961.1
UniProt Primary Accession #	P21673
UniProt Related Accession #	P21673
GenBank Nucleotide #	NM_002970.3
NCBI Official Full Name	diamine acetyltransferase 1
NCBI Official Synonym Full Names	spermidine/spermine N1-acetyltransferase 1
NCBI Official Symbol	SAT1
NCBI Official Synonym Symbols	SAT; DC21; KFSD; SSAT; KFSDX; SSAT-1
UniProt Protein Name	Diamine acetyltransferase 1
UniProt Synonym Protein Names	Polyamine N-acetyltransferase 1; Putrescine acetyltransferase; Spermidine/spermine N(1)-acetyltransferase 1; SSAT; SSAT-1
Protein Family	Diamine acetyltransferase
UniProt Gene Name	SAT1
UniProt Synonym Gene Names	SAT; SSAT; SSAT-1
UniProt Entry Name	SAT1_HUMAN
NCBI Protein Information	diamine acetyltransferase 1; diamine N-acetyltransferase 1; polyamine N-acetyltransferase 1; putrescine acetyltransferase; spermidine/spermine N1-acetyltransferase alpha
NCBI Summary for SAT1	The protein encoded by this gene belongs to the acetyltransferase family, and is a rate-limiting enzyme in the catabolic pathway of polyamine metabolism. It catalyzes the acetylation of spermidine and spermine, and is involved in the regulation of the intracellular concentration of polyamines and their transport out of cells. Defects in this gene are associated with keratosis follicularis spinulosa decalvans (KFSD). Alternatively spliced transcripts have been found for this gene.[provided by RefSeq, Sep 2009]

UniProt Comments for SAT1	SAT: Enzyme which catalyzes the acetylation of polyamines. Substrate specificity: norspermidine = spermidine >> spermine > N(1)-acetylspermine > putrescine. This highly regulated enzyme allows a fine attenuation of the intracellular concentration of polyamines. Also involved in the regulation of polyamine transport out of cells. Acts on 1,3-diaminopropane, 1,5-diaminopentane, putrescine, spermidine (forming N(1)- and N(8)-acetylspermidine), spermine, N(1)-acetylspermidine and N(8)-acetylspermidine. Defects in SAT1 may be a cause of keratosis follicularis spinulosa decalvans X-linked (KFSDX). A rare disorder affecting the skin and the eye. Affected men show thickening of the skin of the neck, ears, and extremities, especially the palms and soles, loss of eyebrows, eyelashes and beard, thickening of the eyelids with blepharitis and ectropion, and corneal degeneration. Belongs to the acetyltransferase family. Protein type: Acetyltransferase; EC 2.3.1.57; Amino Acid Metabolism - arginine and proline Chromosomal Location of Human Ortholog: Xp22.1 Cellular Component: intracellular; cytosol Molecular Function: protein binding; diamine N-acetyltransferase activity; spermidine binding Biological Process: spermidine acetylation; polyamine biosynthetic process; putrescine catabolic process; angiogenesis; polyamine metabolic process; regulation of cell proliferation Disease: Keratosis Follicularis Spinulosa Decalvans, X-linked
Research Articles on SAT1	**1.** The Catabolic enzyme SSAT expression levels was up-regulated in both cell lines; however, the specific SSAT siRNA treatments prevented the EBR-induced apoptosis only in LNCaP (AR+) cells.
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