

Human S-Adenosylmethionine Synthase Isoform Type-2 (MAT2A) ELISA Kit | MAT2A elisa kit

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CATALOG # AAA331863	REACTIVITY Human
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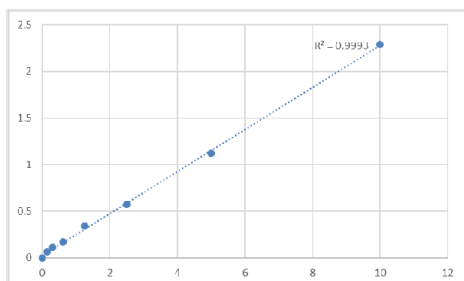
PRODUCT SYNONYMS

S-Adenosylmethionine Synthase Isoform Type-2 (MAT2A); Human S-Adenosylmethionine Synthase Isoform Type-2 (MAT2A) ELISA Kit; MAT2A; MATA2; MATII; SAMS2; MAT2A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human S-adenosylmethionine synthase isoform type-2 (MAT2A) ELISA Kit has high sensitivity and excellent specificity for detection of Human MAT2A. No significant cross-reactivity or interference between Human MAT2A and analogues was observed.
Sequence Length	362
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human S-adenosylmethionine synthase isoform type-2 (MAT2A) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MAT2A elisa kit	Description: This Human S-adenosylmethionine synthase isoform type-2 (MAT2A) ELISA Kit employs a two-site sandwich ELISA to quantitate MAT2A in samples. An antibody specific for MAT2A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MAT2A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MAT2A is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MAT2A bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Methionine adenosyltransferase (EC 2.5.1.6) catalyzes the biosynthesis of S-adenosylmethionine (AdoMet) from methionine and ATP. AdoMet is the major methyl donor for many of the transmethylation reactions in the body. Three forms of MAT have been identified in mammalian tissues. MAT I and MAT III, which are encoded by the single-copy MAT1A gene, represent tetramers and dimers, respectively, formed from identical alpha-1 subunits and are synthesized primarily in the liver. The MAT2A promoter is highly GC rich, especially in the first 300 bp. The promoter contains several potential SP1-, v-myb-, and GATA-binding sites, as well as potential binding sites for C/EBP, HSF2, c-myb, and STATx. MAT2A promoter can efficiently drive expression from a reporter gene in both Jurkat and 293 cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119619920
NCBI GeneID	4144
UniProt Accession #	P31153
NCBI Official Full Name	methionine adenosyltransferase II, alpha, isoform CRA_c
NCBI Official Synonym Full Names	methionine adenosyltransferase 2A
NCBI Official Symbol	MAT2A
NCBI Official Synonym Symbols	MATA2; MATII; SAMS2
NCBI Protein Information	S-adenosylmethionine synthase isoform type-2
UniProt Protein Name	S-adenosylmethionine synthase isoform type-2
UniProt Gene Name	MAT2A
UniProt Synonym Gene Names	AMS2; MATA2; AdoMet synthase 2; MAT 2; MAT-II
UniProt Entry Name	METK2_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.