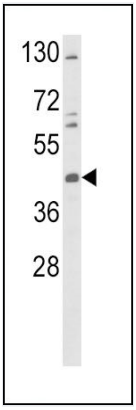
TAT Antibody – Rabbit Polyclonal

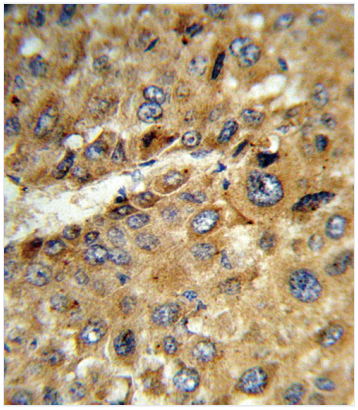
PRODUCT OVERVIEW

Product Name	TAT, Polyclonal Antibody
Full Product Name	TAT, ID (TAT, Tyrosine aminotransferase, L-tyrosine:2-oxoglutarate aminotransferase) (APC)
Product Gene Name	anti-TAT antibody
Product Synonym Names	TAT; Tyrosine aminotransferase; L-tyrosine:2-oxoglutarate aminotransferase
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 Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	50,399 Da
OMIM	X52520 mRNA
3D Structure	ModBase 3D Structure for P17735
Immunogen	TAT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 285~315 amino acids from the Central region of human TAT.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-TAT antibody	Antibodies; Enzymes; Aminotransferase
Applications Tested/Suitable for anti-TAT antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-TAT antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-TAT antibody	TAT is a mitochondrial protein tyrosine aminotransferase which is present in the liver and catalyzes the conversion of L-tyrosine into p-hydroxyphenylpyruvate.
Product References and Citations for anti-TAT antibody	Liu, S., et al. Biosci. Rep. 29(2):103-109(2009). Pasternack, S.M., et al. Br. J. Dermatol. 160(3):704-706(2009). Maydan, G., et al. J. Inherit. Metab. Dis. 29(5):620-626(2006). Charfeddine, C., et al. Mol. Genet. Metab. 88(2):184-191(2006). Baharvand, H., et al. Int. J. Dev. Biol. 50(7):645-652(2006). Natt, E., et al. Proc. Natl. Acad. Sci. U.S.A. 89(19):9297-9301(1992).

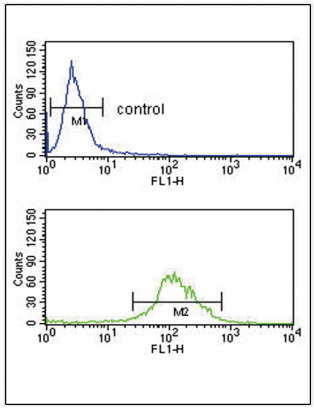
Other Notes	Small volumes of anti-TAT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TAT purchase	MBS6353755 is an antibody targeting TAT. Also known as TAT, ID (TAT, Tyrosine aminotransferase, L-tyrosine:2-oxoglutarate aminotransferase) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TAT antibody
Western blot analysis of TAT Antibody (Center) in K562 cell line lysates (35ug/lane). TAT (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-TAT antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with TAT Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-TAT antibody
TAT Antibody (Center) flow cytometry analysis of K562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

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

NCBI GI #	4507369
NCBI GeneID	6898
NCBI Accession #	NP_000344
UniProt Primary Accession #	P17735
UniProt Secondary Accession #	B2R8I1; D3DWS2
UniProt Related Accession #	P17735
GenBank Nucleotide #	NM_000353.2
NCBI Official Full Name	tyrosine aminotransferase

NCBI Official Synonym Full Names	tyrosine aminotransferase
NCBI Official Symbol	TAT
UniProt Protein Name	Tyrosine aminotransferase
UniProt Synonym Protein Names	L-tyrosine:2-oxoglutarate aminotransferase
Protein Family	Protein
UniProt Gene Name	TAT
UniProt Synonym Gene Names	TAT
NCBI Protein Information	tyrosine aminotransferase
NCBI Summary for TAT	This nuclear gene encodes a mitochondrial protein tyrosine aminotransferase which is present in the liver and catalyzes the conversion of L-tyrosine into p-hydroxyphenylpyruvate. Mutations in this gene cause tyrosinemia (type II, Richner-Hanhart syndrome), a disorder accompanied by major skin and corneal lesions, with possible mental retardation. A regulator gene for tyrosine aminotransferase is X-linked. [provided by RefSeq, Jul 2008]
UniProt Comments for TAT	TAT: Transaminase involved in tyrosine breakdown. Converts tyrosine to p-hydroxyphenylpyruvate. Can catalyze the reverse reaction, using glutamic acid, with 2-oxoglutarate as cosubstrate (in vitro). Has much lower affinity and transaminase activity towards phenylalanine. Defects in TAT are the cause of tyrosinemia type 2 (TYRO2); also known as Richner-Hanhart syndrome. TYRO2 is an inborn error of metabolism characterized by elevations of tyrosine in the blood and urine, and oculocutaneous manifestations. Typical features include palmoplantar keratosis, painful corneal ulcers, and mental retardation. Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. Protein type: Amino Acid Metabolism - cysteine and methionine; Amino Acid Metabolism - phenylalanine; Amino Acid Metabolism - phenylalanine, tyrosine and tryptophan biosynthesis; Amino Acid Metabolism - tyrosine; Cofactor and Vitamin Metabolism - ubiquinone and other terpenoid-quinone biosynthesis; EC 2.6.1.5; Mitochondrial; Transferase Chromosomal Location of Human Ortholog: 16q22.2 Cellular Component: cytosol Molecular Function: tyrosine transaminase activity Biological Process: 2-oxoglutarate metabolic process; glutamate metabolic process; L-phenylalanine catabolic process; tyrosine catabolic process Disease: Tyrosinemia, Type Ii
Research Articles on TAT	**1.** Two known mutations and one novel mutation was found in the TAT gene of Tunesian Richner-Hanhart syndrome patients. The geographical distribution of RHS mutations shows regional specificities.
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