Product Name: TAT Rabbit Polyclonal Antibody
Catalog #: APRab18653
For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
Molecular Weight	

Antigen Information

Gene Name	TAT
Alternative Names	TAT; Tyrosine aminotransferase; TAT; L-tyrosine:2-oxoglutarate aminotransferase
Gene ID	6898.0
SwissProt ID	P17735
Immunogen	The antiserum was produced against synthesized peptide derived from human TAT. AA range:255-304

Background

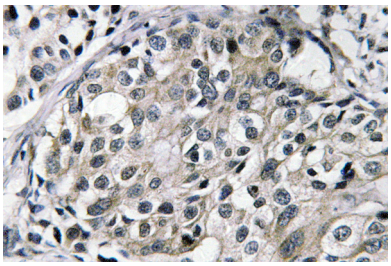
This nuclear gene encodes a mitochondrial protein tyrosine aminotransferase which is present in the liver and catalyzes the

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],catalytic activity:L-tyrosine + 2-oxoglutarate = 4-hydroxyphenylpyruvate + L-glutamate.,cofactor:Pyridoxal phosphate.,disease:Defects in TAT are the cause of tyrosinemia type 2 (TYRO2) [MIM:276600]; 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.,pathway:Amino-acid degradation; L-phenylalanine degradation; acetoacetic acid and fumarate from L-phenylalanine: step 2/6.,similarity:Belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family.,subunit:Homodimer.,

Research Area

Ubiquinone and other terpenoid-quinone biosynthesis;Cysteine and methionine metabolism;Tyrosine metabolism;Phenylalanine metabolism;Phenylalanine; tyrosine and tryptophan biosynthesis;

Image Data



Immunohistochemistry analysis of TAT antibody in paraffin-embedded human breast carcinoma tissue.