

TAT (m7): 293T Lysate: sc-123923

BACKGROUND

TAT (tyrosine aminotransferase) is a 454 amino acid protein that localizes to mitochondria and belongs to the class-I pyridoxal-phosphate-dependent aminotransferase family. Existing as a homodimer, TAT uses pyridoxal phosphate as a cofactor to catalyze the conversion of L-tyrosine into p-hydroxyphenyl-pyruvate, a reaction that is important in amino acid degradation. Defects in the gene encoding TAT are the cause of tyrosinemia type 2 (TYRO2), an inborn error of metabolism that is associated with elevated levels of tyrosine in blood and urine and is characterized by palmoplantar keratosis, painful corneal ulcers and mental retardation. The gene encoding TAT maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome.

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CHROMOSOMAL LOCATION

Genetic locus: Tat (mouse) mapping to 8 D3.

PRODUCT

TAT (m7): 293T Lysate represents a lysate of mouse TAT transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TAT (m7): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TAT antibodies. Recommended use: 10-20 µl per lane.

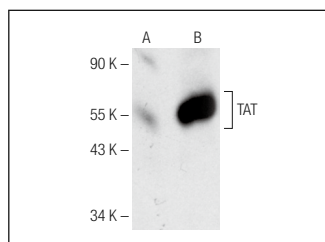
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TAT (A-6): sc-374065 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TAT expression in TAT transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

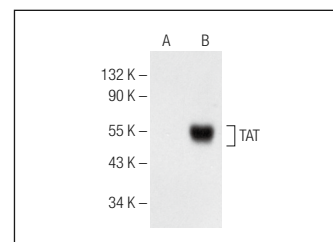
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



TAT (A-6): sc-374065. Western blot analysis of TAT expression in non-transfected: sc-117752 (A) and mouse TAT transfected: sc-123923 (B) 293T whole cell lysates.



TAT (D-9): sc-365512. Western blot analysis of TAT expression in non-transfected: sc-117752 (A) and mouse TAT transfected: sc-123923 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.