

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human α -Amino adipate Aminotransferase in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human α -Amino adipate Aminotransferase Met1-Leu425 Accession # Q8N5Z0
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Alpha-Amino adipate Aminotransferase (AADAT, KAT2 and Kynurenine/alpha-amino adipate aminotransferase, mitochondrial) is a 47 kDa (predicted) mitochondrial member of the class-I pyridoxal-phosphate-dependent aminotransferase family of proteins. One activity is the transamination of alpha-amino adipic acid, a final step in the saccaropine pathway which is the major pathway for L-lysine catabolism. The other activity involves the transamination of kynurenine to produce kynurenine acid, the precursor of kynurenic acid which has neuroprotective properties. Several transcript variants encoding two different isoforms have been found for this gene. Human AADAT is predominantly expressed in the liver, it is also found in heart, brain, kidney, pancreas, prostate, testis and ovary. Over aa 1-425, human AADAT shares 73% aa sequence identity with mouse ADDAT.

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