



Rabbit Anti-AGXT2L2 antibody

SL9095R

Product Name:	AGXT2L2
Chinese Name:	AGXT2L2蛋白抗体
Alias:	Alanine glyoxylate aminotransferase 2 like 2; MGC117348; AT2L2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human AGXT2L2:381-450/450
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Members of the class-III pyridoxal-phosphate-dependent aminotransferase family, such as AGXT2, catalyze the conversion of glyoxylate to glycine using L-alanine as the amino donor. AGXT2 protects from asymmetric dimethylarginine (ADMA)-induced inhibition in nitric oxide (NO) production. Elevated blood concentrations of ADMA, a methyl derivate of the amino acid arginine and an endogenous inhibitor of nitric oxide (NO) synthase, is produced by the physiological degradation of methylated proteins and is found in association with diabetes, hypertension, congestive heart failure and

atherosclerosis. AGXT2L2 (alanine-glyoxylate aminotransferase 2-like 2) is a 450 amino acid pyridoxal phosphate that exists as a homotetramer. Belonging to the class-III pyridoxal-phosphate-dependent aminotransferase family, AGXT2L2 localizes to the mitochondria and exists as three alternatively spliced isoforms. Encoded by a gene located on human chromosome 5q35.3, AGXT2L2 may have similar functions as AGXT2.

Function:

Catalyzes the pyridoxal-phosphate-dependent breakdown of 5-phosphohydroxy-L-lysine, converting it to ammonia, inorganic phosphate and 2-aminoadipate semialdehyde.

Subunit:

Homotetramer.

Subcellular Location:

Mitochondrial

Similarity:

Belongs to the class-III pyridoxal-phosphate-dependent aminotransferase family.

SWISS:

Q8IUZ5

Gene ID:

85007

Database links:

[Entrez Gene: 85007](#)Human

[Entrez Gene: 72947](#)Mouse

[Entrez Gene: 100169747](#)Rat

[Olim: 614683](#)Human

[SwissProt: Q8IUZ5](#)Human

[SwissProt: Q8R1K4](#)Mouse

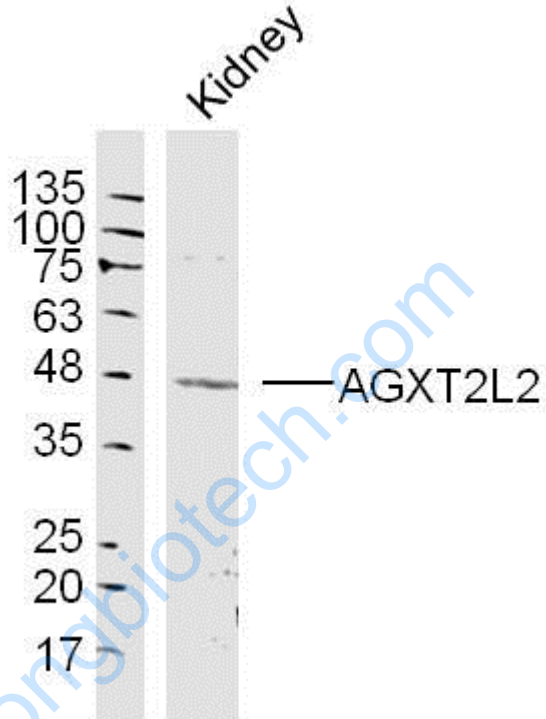
[Unigene: 248746](#)Human

[Unigene: 490267](#)Mouse

[Unigene: 217734](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

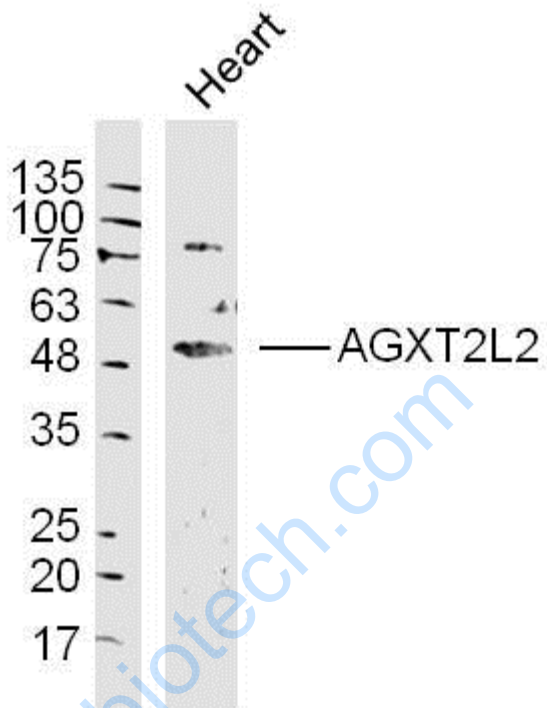
Sample: Kidney (Mouse) Lysate at 40 ug

Primary: Anti-AGXT2L2 (SL9095R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 48 kD



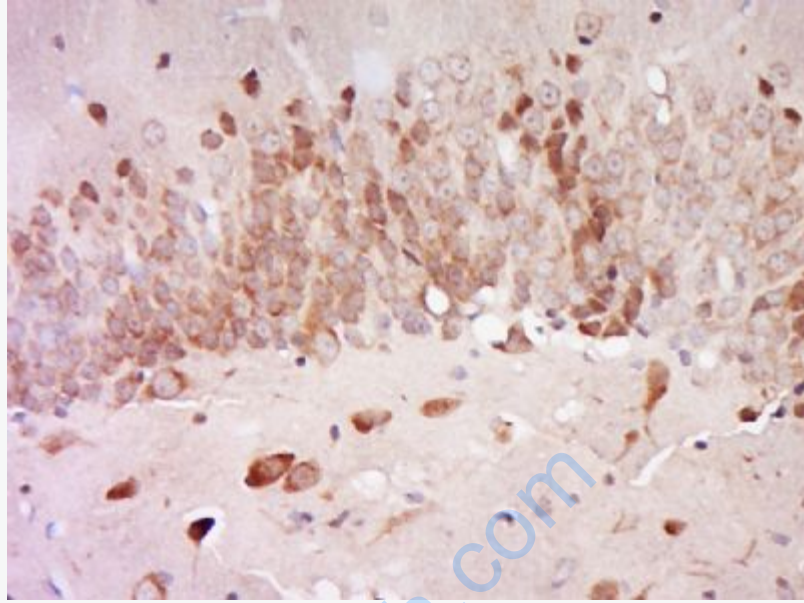
Sample: Heart (mouse) Lysate at 40 ug

Primary: Anti- AGXT2L2 (SL9095R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50kD

Observed band size: 50 kD



Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-AGXT2L2 Polyclonal Antibody, Unconjugated(SL9095R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining