



Rabbit Anti-Arginase 1 antibody

SL23837R

Product Name:	Arginase 1
Chinese Name:	精氨酸酶1抗体
Alias:	liver Arginase; ARG 1; ARG1; ARG1I_HUMAN; Arginase1; Arginase liver; Arginase type I; Arginase I; ArginaseI; Arginase-1; Arginase1; Liver type arginase; Liver-type arginase; Type I arginase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	35kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/1ml
immunogen:	KLH conjugated synthetic peptide derived from human Arginase 1:
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:	Arginase I which is expressed almost exclusively in the liver, catalyzes the conversion of arginine to ornithine and urea . The human arginase I gene, which maps to chromosome 6q23, encodes a 322 amino acid protein. Arginase I exists as a homotrimeric protein and contains a binuclear manganese cluster. Arginase II catalyzes the same reaction as arginase I, but differs in its tissue specificity and subcellular location. Specifically,

arginase II localizes to the mitochondria. Arginase II is expressed in non-hepatic tissues, with the highest levels of expression in the kidneys, but, unlike arginase I, is not expressed in liver. The human arginase II gene, which maps to chromosome 14q24.1-q24.3, encodes a 354 amino acid protein. In addition, arginase II contains a putative amino-terminal mitochondrial localization sequence.

Subunit:

Homotrimer.

Subcellular Location:

Cytoplasm.

DISEASE:

Defects in ARG1 are the cause of argininemia (ARGIN) ; also known as hyperargininemia. Argininemia is a rare autosomal recessive disorder of the urea cycle. Arginine is elevated in the blood and cerebrospinal fluid, and periodic hyperammonemia occurs. Clinical manifestations include developmental delay, seizures, mental retardation, hypotonia, ataxia, progressive spastic quadriplegia.

Similarity:

Belongs to the arginase family.

SWISS:

P05089

Gene ID:

383

Database links:

[Entrez Gene: 513608](#)Cow

[Entrez Gene: 383](#)Human

[Entrez Gene: 11846](#)Mouse

[Entrez Gene: 397115](#)Pig

[Entrez Gene: 100008814](#)Rabbit

[Entrez Gene: 29221](#)Rat

[Omim: 608313](#)Human

[SwissProt: Q2KJ64](#)Cow

[SwissProt: P05089](#)Human

[SwissProt: Q61176](#)Mouse

[SwissProt: Q95JC8](#)Pig

[SwissProt: Q95KM0](#)Rabbit

[SwissProt: P07824](#)Rat

[Unigene: 440934](#)Human

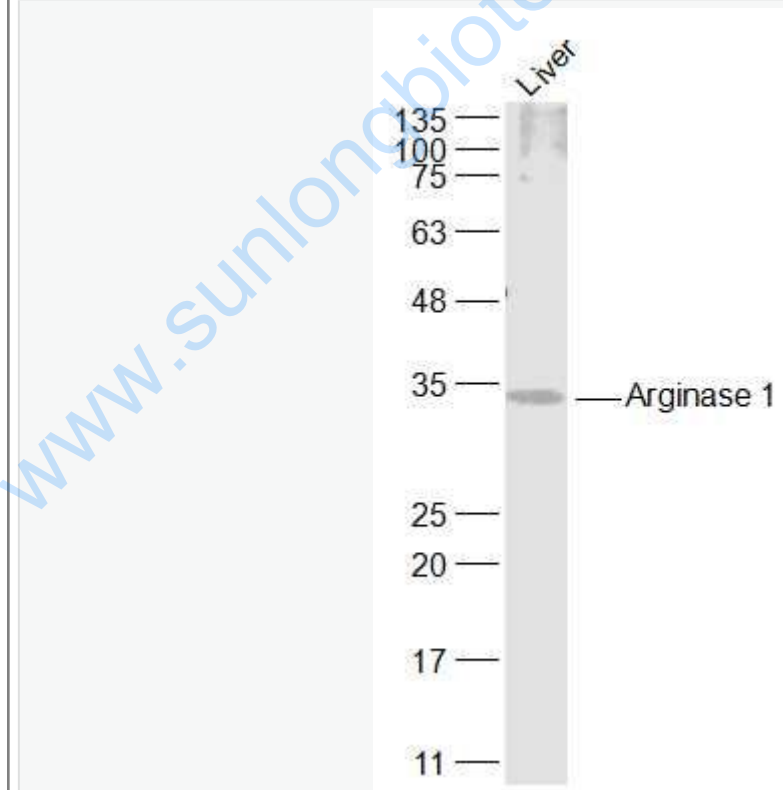
[Unigene: 154144](#)Mouse

[Unigene: 9857](#)Rat

Important Note:

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

Picture:



Sample:

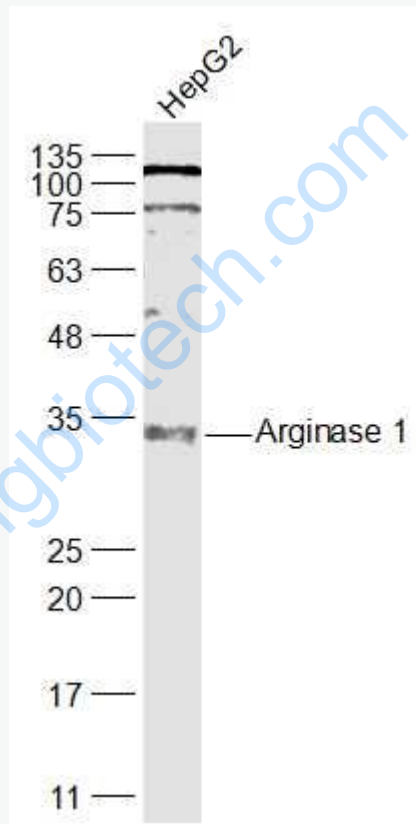
Liver(Rat) Lysate at 40 ug

Primary: Anti-Arginase 1 (SL23837R) at 1/1000 dilution

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

Predicted band size: 35 kD

Observed band size: 34 kD



Sample:

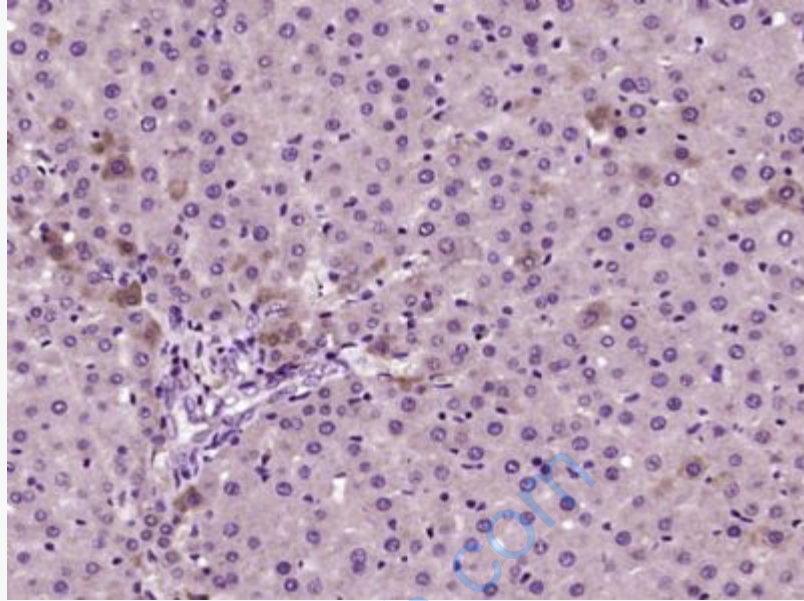
HepG2(Human) Cell Lysate at 30 ug

Primary: Anti-Arginase 1 (SL23837R) at 1/1000 dilution

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

Predicted band size: 35 kD

Observed band size: 34 kD



Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Arginase 1) Polyclonal Antibody, Unconjugated (SL23837R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.