SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Arginase 1 antibody

Catalog Number: SL23837R

FOR RESEARCH USE ONLY

[DATASHEET]

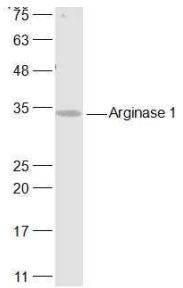
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Arginase 1
Immunogen:	KLH conjugated synthetic peptide derived from human Arginase 1
Purification:	affinity purified by Protein A
Concentration:	1mg/1ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Dog,Pig,Rabbit)
Predicted MW.:	35kDa
Subcellular Location:	cytoplasmic
Background:	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.

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

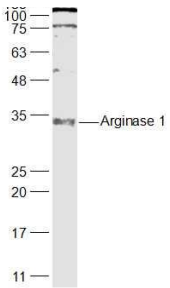
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	Subcellular Location: Cytoplasm. DISEASE: Defects in ARG1 are the cause of argininemia (ARGIN) ; also known as hyperargininemia. Argininemia is a rare autosomal recessive disorder of the urea cycle. Arginine is elevated in the blood and cerebrospinal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

[VALIDATION IMAGES]



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

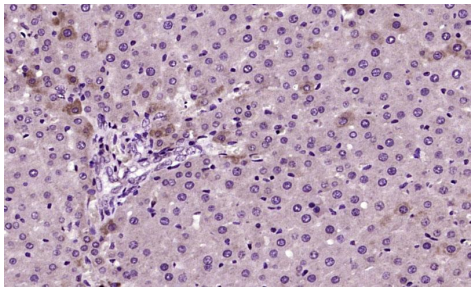
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Paraformaldehyde-fixed, paraffin embedded (Rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; 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) instructionsand DAB staining.

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