


Product datasheet

Anti-Liver Arginase antibody [EPR6671(B)] ab124917

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [23 References](#) [4 Images](#)

Overview

Product name	Anti-Liver Arginase antibody [EPR6671(B)]
Description	Rabbit monoclonal [EPR6671(B)] to Liver Arginase
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide within Human Liver Arginase aa 1-100. The exact sequence is proprietary. Database link: P05089
Positive control	WB: Human fetal liver and mouse liver lysates and Myc-DDK tagged Recombinant Human ARG1 protein.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR6671(B)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124917 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 35 kDa.

Application notes Is unsuitable for ICC/IF.

Target

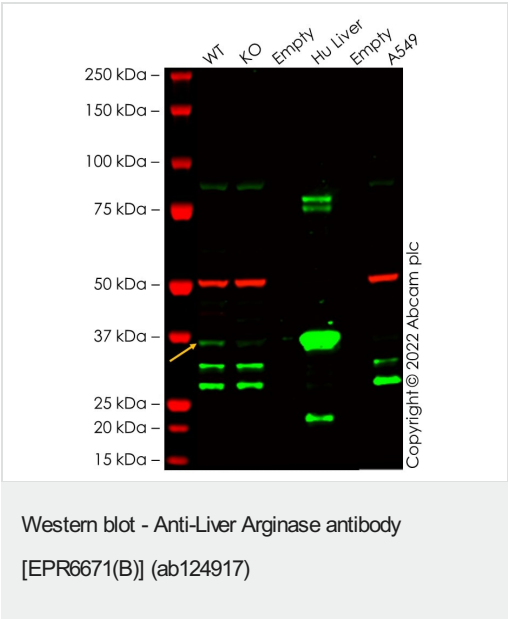
Pathway Nitrogen metabolism; urea cycle; L-ornithine and urea from L-arginine: step 1/1.

Involvement in disease Defects in ARG1 are the cause of argininemia (ARGIN) [MIM:207800]; 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.

Sequence similarities Belongs to the arginase family.

Cellular localization Cytoplasm.

Images



All lanes : Anti-Liver Arginase antibody [EPR6671(B)] (ab124917) at 1/1000 dilution

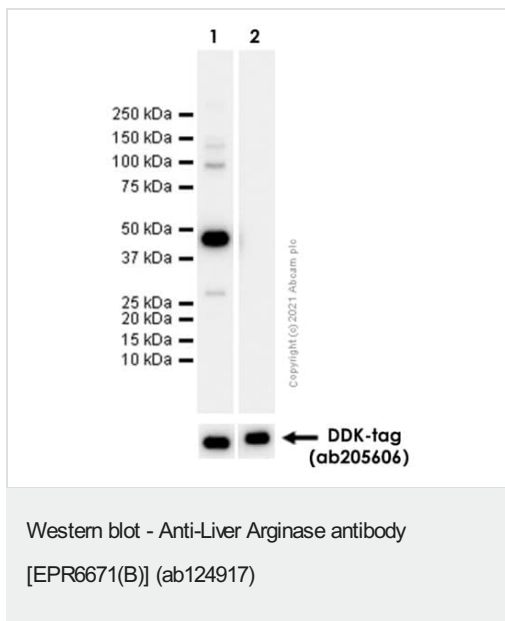
- Lane 1 :** Wild-type HepG2 cell lysate at 20 µg
- Lane 2 :** arg1 knockout HepG2 cell lysate at 20 µg
- Lane 4 :** Human Liver cell lysate at 5 µg
- Lane 6 :** A549 cell lysate at 20 µg

Performed under reducing conditions.

Predicted band size: 35 kDa
Observed band size: 36 kDa

False colour image of Western blot: Anti-Liver Arginase antibody [EPR6671(B)] staining at 1/1000 dilution, shown in green; Mouse

anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab124917 was shown to bind specifically to Liver Arginase. A band was observed at 36 kDa in wild-type HepG2 cell lysates with no signal observed at this size in arg1 knockout cell line [ab281603](#) (knockout cell lysate [ab282955](#)). Faint band remaining in KO sample at same molecular weight is likely to be an isoform of arg1. To generate this image, wild-type and arg1 knockout HepG2 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 5 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



All lanes : Anti-Liver Arginase antibody [EPR6671(B)] (ab124917) at 1/1000 dilution

Lane 1 : Myc-DDK tagged Recombinant Human ARG1 protein (full-length, aa 1 to 322) (34.6 kDa)

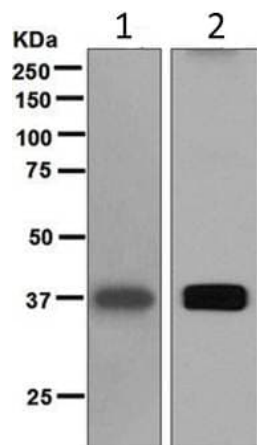
Lane 2 : Myc-DDK tagged Recombinant Human ARG2 protein (full-length, aa 1 to 354) (36 kDa)

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 35 kDa

Observed band size: 40 kDa



Western blot - Anti-Liver Arginase antibody
[EPR6671(B)] (ab124917)

All lanes : Anti-Liver Arginase antibody [EPR6671(B)] (ab124917)
at 1/1000 dilution

Lane 1 : Human fetal liver lysate

Lane 2 : Mouse liver lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 35 kDa

Why choose a
recombinant antibody?



**Research with
confidence**
Consistent and
reproducible results



**Long-term and
scalable supply**
Recombinant
technology



**Success from the
first experiment**
Confirmed
specificity



**Ethical standards
compliant**
Animal-free
production

Anti-Liver Arginase antibody [EPR6671(B)]
(ab124917)

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