

Arginase 1 Recombinant Polyclonal Antibody (24HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	24HCLC
Conjugate	Unconjugated
Immunogen	Peptides corresponding to human Arginase 1 [1) aa304-aa322 2) aa52-aa71]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2722873

Applications	Tested Dilution	Publications
Western Blot (WB)	2.5 µg/mL	2 Publications
Immunocytochemistry (ICC/IF)	5 µg/mL	-

Product Specific Information

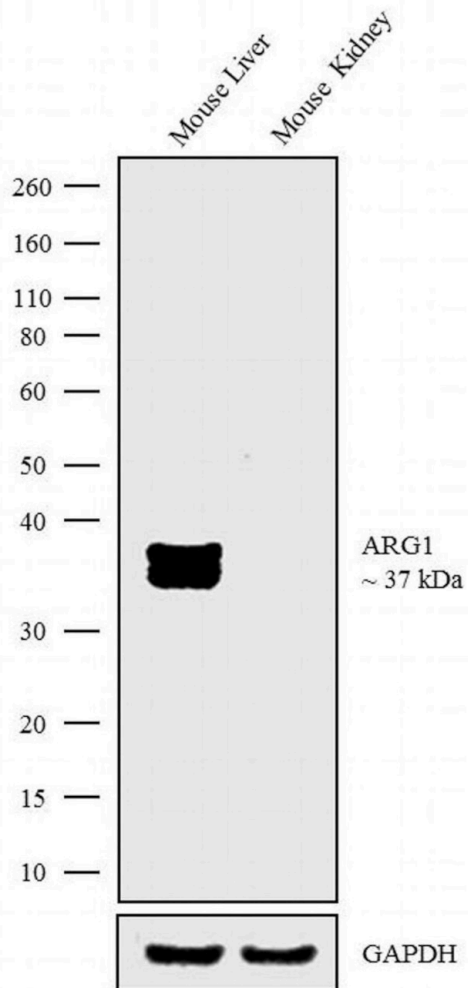
This antibody is predicted to react with Monkey, Cat, Horse.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For Arginase 1 Recombinant Polyclonal Antibody (24HCLC)

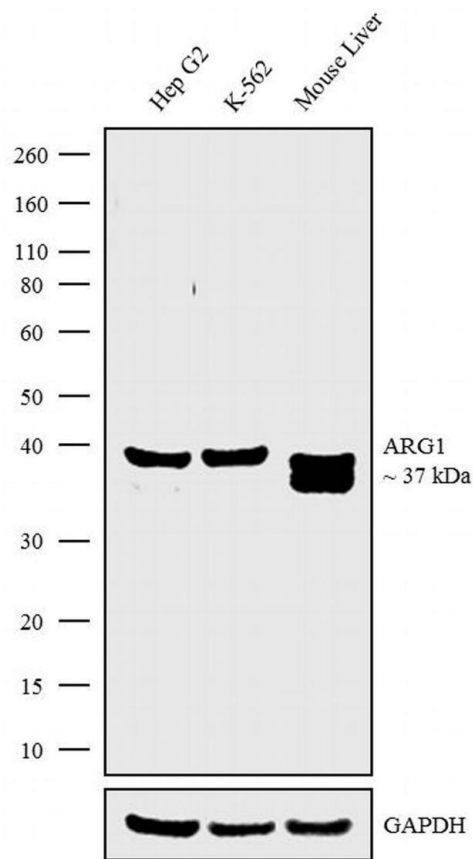
Arginase 1 Antibody (711765)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue models owing to their inherent genetic constitution. Expression of ARG1 was observed specifically in Mouse Liver in comparison to Mouse Kidney using Anti-ARG1 Recombinant Rabbit Polyclonal Antibody (Product # 711765) in Western blot. {RE}



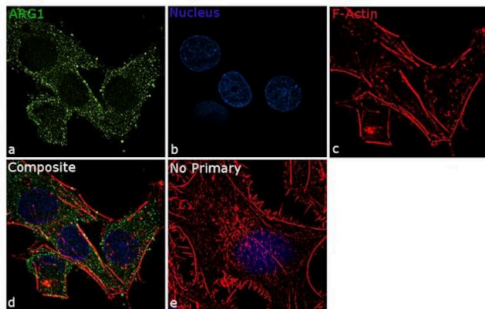
Arginase 1 Antibody (711765) in WB

Western blot analysis was performed on Whole cell extracts (30 µg lysate) of Hep G2 (Lane 1), K-562 (Lane 2) and tissue extracts of Mouse Liver (Lane 3). The blots were probed with Anti-ARG1 Recombinant Rabbit Polyclonal Antibody (Product # 711765, 2.5 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 37 kDa band corresponding to ARG1 was observed across the cell lines and tissues tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Arginase 1 Antibody (711765) in ICC/IF

For immunofluorescence analysis, HepG2 cells were fixed and permeabilized for detection of endogenous ARG1 using Anti- ARG1 Recombinant Rabbit Polyclonal Antibody (Product # 711765, 5 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of ARG1 protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating cytoplasmic localization of ARG1. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (2)

Scientific reports	Year 2022
MTAP loss correlates with an immunosuppressive profile in GBM and its substrate MTA stimulates alternative macrophage polarization.	
"Published figure using Arginase 1 recombinant polyclonal antibody (Product # 711765) in Western Blot"	
Authors: Hansen LJ,Yang R,Roso K,Wang W,Chen L,Yang Q,Pirozzi CJ,He Y	
Journal of geriatric cardiology : JGC	Year 2021
sDR5-Fc inhibits macrophage M1 polarization by blocking the glycolysis.	
"Published figure using Arginase 1 recombinant polyclonal antibody (Product # 711765) in Western Blot"	Species Mouse
Authors: Zhai GY,Qie SY,Guo QY,Qi Y,Zhou YJ	Dilution 1:1000

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