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Product datasheet for CF502413

Arginase 1 (ARG1) Mouse Monoclonal Antibody [Clone ID: OTI4E6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4E6
Applications:	FC, IHC, WB
Recommended Dilution:	WB 1:1000~2000, IHC 1:50, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ARG1 (NP_000036) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	34.6 kDa
Gene Name:	Homo sapiens arginase 1 (ARG1), transcript variant 2, mRNA.
Database Link:	NP_000036 Entrez Gene 11846 MouseEntrez Gene 29221 RatEntrez Gene 383 Human
Background:	Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. [provided by RefSeq]

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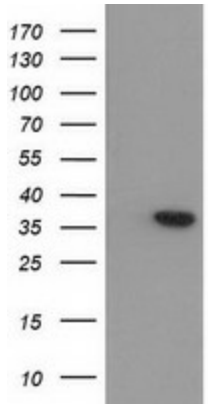
Synonyms: arginase; arginase 1; liver; liver-type arginase; OTTHUMP00000017209; type I arginase

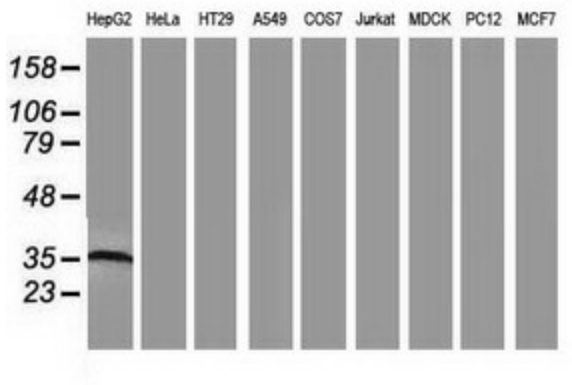
Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Metabolic pathways

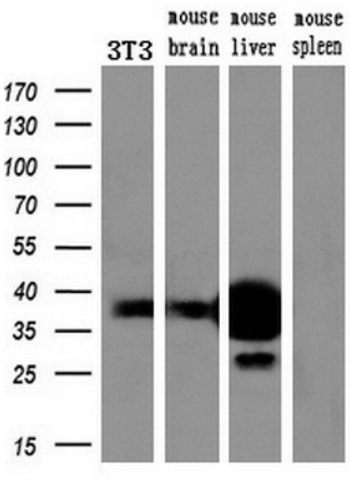
Product images:



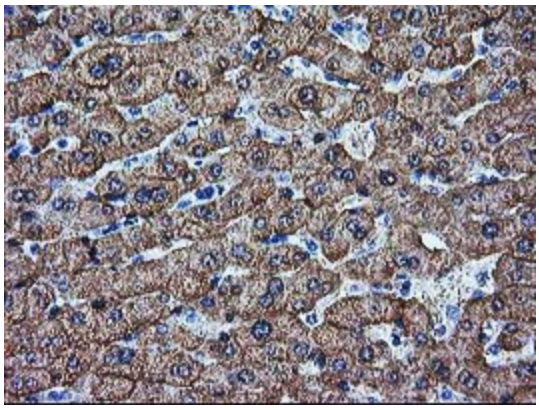
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ARG1 ([RC204649], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARG1. Positive lysates [LY424951] (100ug) and [LC424951] (20ug) can be purchased separately from OriGene.



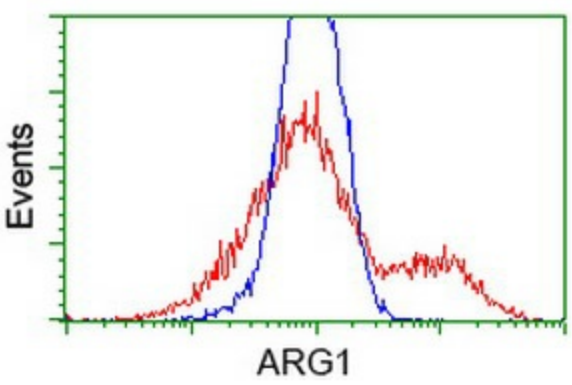
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ARG1 monoclonal antibody.



Western blot analysis of extracts (10ug) from a mouse cell line and 3 different mouse tissues by using anti-ARG1 monoclonal antibody (1:200).



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-ARG1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502413])



HEK293T cells transfected with either [RC204649] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ARG1 antibody ([TA502413]), and then analyzed by flow cytometry.