

# Product Datasheet

## Arginase 1/ARG1/liver Arginase Assay Kit (Colorimetric) KA1609

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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Updated 10/23/2024 v.20.1

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**KA1609****Arginase 1/ARG1/liver Arginase Assay Kit (Colorimetric)**

<b>Product Information</b>	
<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Storage of components varies. See protocol for specific instructions.
<b>Product Description</b>	
<b>Description</b>	Arginase Assay Kit is a quantitative colorimetric arginase determination.
<b>Gene ID</b>	383
<b>Gene Symbol</b>	ARG1
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Rat reactivity reported in scientific literatures (PMID: 26315997 and 24440670).
<b>Kit Components</b>	Arginine Buffer (pH 9.5), Mn Solution, Reagent A, Reagent B, Urea standard (50 mg/dL)
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Standard Curve Range</b>	0.3 to 20 U/L
<b>Sensitivity</b>	0.3 U/L
<b>Assay Type</b>	Colorimetric
<b>Suitable Sample Type</b>	Enzyme preparations, serum, plasma, tissue culture etc
<b>Sample Volume</b>	40 uL
<b>Product Application Details</b>	
<b>Applications</b>	Functional, Quantification
<b>Recommended Dilutions</b>	Functional, Quantification

## Publications

Houjun X, Shasha L, Xiong L et al. Autophagic adaptation to oxidative stress alters peritoneal residential macrophage survival and ovarian cancer metastasis. *JCI Insight*. 2020-09-17 [PMID: 32780724]

Xiaojing Z, Wen W, Fang C et al. Myeloid-derived Suppressor Cells Exert Immunosuppressive Function on the T Helper 2 in Mice Infected With *Echinococcus Granulosus*. *Exp Parasitol*. 2020-05-22 [PMID: 32446699]

Jiajun C, Shiqi C, Renjie L et al. Blockade of Cyclooxygenase-2 ameliorates sepsis induced immune-suppression by regulating myeloid-derived suppressor cells. *Int Immunopharmacol*. 2022-01-07 [PMID: 35008007]

WC Lee, PY Hsu, HY Hsu Stem cell factor produced by tumor cells expands myeloid-derived suppressor cells in mice *Sci Rep*, 2020-07-09;10(1):11257. 2020-07-09 [PMID: 32647215]

Maryam S, Mahmoud J, Ali B et al. Preparation of liposomes containing IFN-gamma and their potentials in cancer immunotherapy: In vitro and in vivo studies in a colon cancer mouse model. *Life Sci*. 2020-10-20 [PMID: 33096119]

Trotta MC, Gesualdo C, Petrillo F et al. Serum Iba-1, GLUT5, and TSPO in Patients With Diabetic Retinopathy: New Biomarkers for Early Retinal Neurovascular Alterations? A Pilot Study *Translational vision science & technology* 2022 -03-02 [PMID: 35285861]

Kubota T, Inoue M, Kubota N et al. Downregulation of macrophage *Irs2* by hyperinsulinemia impairs IL-4-induced M2a-subtype macrophage activation in obesity. *Nat Commun*. 2018-11-19 [PMID: 30451856]

Sikkema AH, Stoffels JMJ, Wang P et al. Fibronectin aggregates promote features of a classically and alternatively activated phenotype in macrophages. *J Neuroinflammation* 2018-08-02 [PMID: 30071854]

Ochocki JD, Khare S, Hess M et al. Arginase 2 Suppresses Renal Carcinoma Progression via Biosynthetic Cofactor Pyridoxal Phosphate Depletion and Increased Polyamine Toxicity. *Cell Metab* 2018-05-10 [PMID: 29754953]

Weinhage T, Dabritz J, Brockhausen A et al. Granulocyte Macrophage Colony-Stimulating Factor-Activated CD39+/CD73+ Murine Monocytes Modulate Intestinal Inflammation via Induction of Regulatory T Cells. *CMGH* Jul 1 2015 12:00AM

Gannavaram S, Bhattacharya P, Dey R et al. Methods to Evaluate the Preclinical Safety and Immunogenicity of Genetically Modified Live-Attenuated *Leishmania* Parasite Vaccines. *Methods Mol Biol* 2016-04-14 [PMID: 27076157]

Weinhage T, Dabritz J, Brockhausen A et al. Granulocyte Macrophage Colony-Stimulating Factor-Activated CD39+/CD73+ Murine Monocytes Modulate Intestinal Inflammation via Induction of Regulatory T Cells. *CMGH* 2015-07-01 [PMID: 28210690]

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### **Products Related to KA1609**

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NBP1-87490PEP	Arginase 1/ARG1/liver Arginase Recombinant Protein Antigen
210-TA-005	TNF-alpha [Unconjugated]
NBP1-32731	Arginase 1/ARG1/liver Arginase Antibody - BSA Free
M6000B-1	IL-6 [HRP]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Kits are guaranteed for 6 months from date of receipt.

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