antibodies

## Datasheet for ABIN2666493 Liver Arginase Protein (AA 1-322, N-Term)



Overview

Quantity:	10 µg
Target:	Liver Arginase (ARG1)
Protein Characteristics:	AA 1-322, N-Term
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Intracellular Flow Cytometry (ICFC)
Product Details	
Purity:	> 92 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 0.01 ng per $\mu$ g cytokine as determined by the LAL method.
Target Details	
Target:	Liver Arginase (ARG1)
Alternative Name:	Arginase I (ARG1 Products)
Background:	Arginase is a divalent cation-dependent enzyme that converts L-arginine into nonprotein amino
	acid L-ornithine and urea, it is the final enzyme of the urea cycle. Arginase is a trimeric
	metalloenzyme and Mn2+ is the physiologic activator. Mammals have two arginase isozymes,
	arginase I and arginase II, which are encoded by different genes. Arginase I, also called liver

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Duffer	0.22 um filtared protein colution is in 20 mM Tris al L0.0.100 mM MacL 10 mM DTT 10.9/
Reconstitution:	For maximum results, quick spin vial prior to opening.
Format:	Liquid
Handling	
Restrictions:	For Research Use only
Comment:	Biological activity: The activity of arginase I is determined by the production of urea from the hydrolysis of L-arginine. The specific activity is >100,000 pmol/min/ $\mu$ g.
Application Notes:	Optimal working dilution should be determined by the investigator.
Application Details	
Pathways:	Cellular Response to Molecule of Bacterial Origin
	PAGE. The predicted N-terminal amino acid is Met.
J. J	kDa. The DTT-reduced and non-reduced protein migrates at approximately 40 kDa by SDS-
Molecular Weight:	The 329 amino acid recombinant protein has a predicted molecular mass of approximately 36
	has also been reported.
	The involvement of arginase Lin axonal regeneration in the central nervous system after injury
	tumors via polyamine synthesis or downregulation of NU-mediated tumor cytotoxicity. In
	biology has also been studied, in this sense, arginase I may promote growth of some types of
	azurophil granules, and is involved in antimicrobial activity. The role of arginase I in tumor
	arginase I. Arginase I is constitutively expressed in human granulocytes and is localized to the
	alternative activated monocytes/macrophages from humans affected by filariasis can express
	stimuli, including Th2 cytokines IL-4, IL-10, and IL-13, is well known. A study has shown that
	studied. The induction of mouse (but not human) arginase I in macrophages by exogenous
	arginase I in the immune response, including anti-parasite and anti-viral responses, has been
	and II modulate many biological functions through regulating NO production. The role of
	can reciprocally regulate NOS activity by modulating L-arginine availability. Therefore, arginase I
	substrate for nitric oxide (NO) synthase (NOS), it has been shown that both arginase isozymes
	and provides L-ornithine for proline and polyamine biosynthesis. Since L-arginine is also the
	such as kidney, brain, prostate, small intestine, lactating mammary gland, and skeletal muscle,
	detoxification in the liver. Arginase II is localized in the mitochondria in extrahepatic tissues,
	arginase, is highly expressed in the cytosol of hepatocytes and is involved in ammonia

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## Handling

	glycerol.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored at -70°C for six months.