

Datasheet for ABIN2714866

ARG2 Protein (Myc-DYKDDDDK Tag)[Go to Product page](#)**2** Images

Overview

Quantity:	20 µg
Target:	ARG2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ARG2 protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Functional Studies (Func), Protein Interaction (PI), Standard (STD)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul style="list-style-type: none">• Recombinant human Arginase-2 protein expressed in HEK293 cells.• Produced with end-sequenced ORF clone• Tested for bioactivity.
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	L-Arginase activity verified in a biochemical assay : Arginase 2 (ARG2,) activity was measured in a colorimetric biochemical assay. Arginase 1 catalyzes the conversion of arginine to ornithine and urea. After incubation of the protein in a solution containing arginine, the reaction is stopped, and the urea concentration is measured by a chemical reaction that produces a colored product that absorbs at 430 nm. By measuring the absorbance at 430 nm and comparing to a standard, the specific activity of this preparation of ARG2 was calculated to be

Product Details

approximately 10U/mg. Unit definition: 1 unit of ARG2 converts 1 μ mole of L-arginine to ornithine and urea per minute at pH 9.5 and 37°C.

Target Details

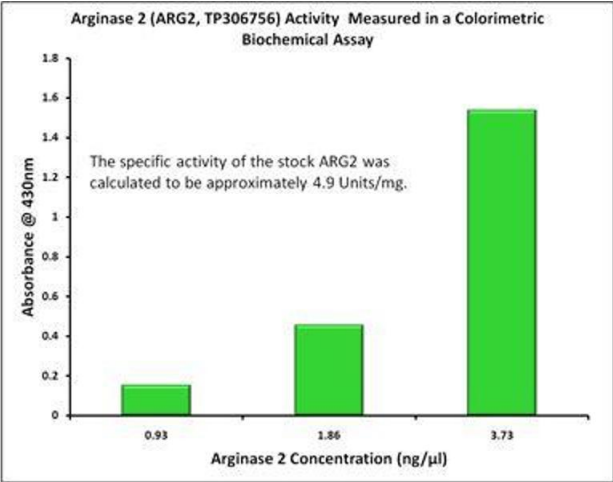
Target:	ARG2
Alternative Name:	Arginase-2 (ARG2 Products)
Background:	Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exists (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type II isoform encoded by this gene, is located in the mitochondria and expressed in extra-hepatic tissues, especially kidney. The physiologic role of this isoform is poorly understood it is thought to play a role in nitric oxide and polyamine metabolism. Transcript variants of the type II gene resulting from the use of alternative polyadenylation sites have been described.
Molecular Weight:	36 kDa
NCBI Accession:	NP_001163

Application Details

Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays Protein-protein interaction In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

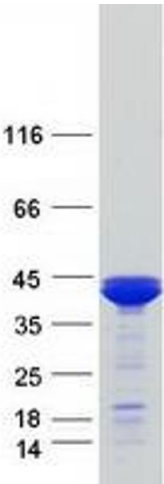
Handling

Concentration:	> 50 μ g/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



Activity Assay

Image 1. Bioactivity measured with Activity Assay



Western Blotting

Image 2. Validation with Western Blot