

ARG57058 anti-Arginase 2 antibody [7F8]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [7F8] recognizes Arginase 2
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	7F8
Isotype	IgG1, kappa
Target Name	Arginase 2
Species	Human
Immunogen	Recombinant fragment around aa. 23-354 of Human Arginase 2.
Conjugation	Un-conjugated
Alternate Names	EC 3.5.3.1; Non-hepatic arginase; Type II arginase; Arginase-2, mitochondrial; Kidney-type arginase

Application Instructions

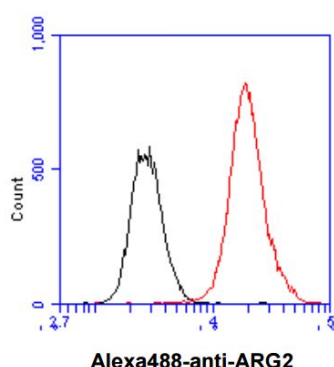
Application table	Application	Dilution
	FACS	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

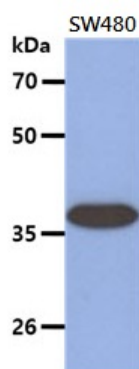
Database links	GeneID: 384 Human Swiss-port # P78540 Human
Gene Symbol	ARG2
Gene Full Name	arginase 2
Background	<p>Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exists (types I and II) which differ in their tissue distribution, subcellular 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. [provided by RefSeq, Jul 2008]</p>
Function	<p>May play a role in the regulation of extra-urea cycle arginine metabolism and also in down-regulation of nitric oxide synthesis. Extrahepatic arginase functions to regulate L-arginine bioavailability to NO synthase. Since NO synthase is found in the penile corpus cavernosum smooth muscle, the clitoral corpus cavernosum and the vagina, arginase II plays a role in both male and female sexual arousal. It is therefore a potential target for the treatment of male and female sexual arousal disorders. [UniProt]</p>
Calculated Mw	39 kDa

Images



ARG57058 anti-Arginase 2 antibody [7F8] FACS image

Flow Cytometry: SW480 cell line stained with ARG57058 anti-Arginase 2 antibody [7F8] at 2-5 µg for 1×10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG57058 anti-Arginase 2 antibody [7F8] WB image

Western blot: 40 µg of SW480 cell lysate stained with ARG57058 anti-Arginase 2 antibody [7F8] at 1:1000 dilution.