10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Arg2 (3X6) Rabbit Monoclonal Antibody

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Catalog # AP93796

Product Information

Application	WB, IHC-P, IP, IF
Primary Accession	O08701
Reactivity	Mouse, Rat
Clonality	Monoclonal
Calculated MW	38640

Additional Information

Gene ID	29215
Other Names	Arginase-2, mitochondrial, 3.5.3.1, Arginase II, Kidney-type arginase, Non-hepatic arginase, Type II arginase, Arg2
Dilution	WB~~1:1000 IHC-P~~N/A IP~~N/A IF~~1:50~200
Storage Conditions	-20℃

Protein Information

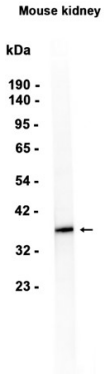
Name	Arg2
Function	May play a role in the regulation of extra-urea cycle arginine metabolism and also in down-regulation of nitric oxide synthesis. Extrahepatic arginase functions to regulate L-arginine bioavailability to nitric oxid synthase (NOS). Arginine metabolism is a critical regulator of innate and adaptive immune responses. Seems to be involved in negative regulation of the survival capacity of activated T cells. May suppress inflammation-related signaling in asthmatic airway epithelium. May play a role in promoting prenatal immune suppression. Regulates RPS6KB1 signaling, which promotes endothelial cell senescence and inflammation and implicates NOS3/eNOS dysfunction. Can inhibit endothelial autophagy independently of its enzymatic activity implicating mTORC2 signaling. Involved in vascular smooth muscle cell senescence and apoptosis independently of its enzymatic activity.
Cellular Location	Mitochondrion {ECO:0000250|UniProtKB:O08691, ECO:0000250|UniProtKB:P78540}

Background

May play a role in the regulation of extra-urea cycle arginine metabolism and also in down-regulation of

nitric oxide synthesis

Images



Western blot analysis of extracts from Mouse kidney tissue using AP93796 at 1:1000.