

Product datasheet for **TP505396**

Arg2 (NM_009705) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse arginase type II (Arg2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205396 protein sequence Red =Cloning site Green =Tags(s)
	<p>MFLRSSASRLLHGQIPCVLTRSVHSVAIVGAPFSRGQKKLGVEYGPA AireAGLLKRLSRLGCHLKDFGD LSFTNVPQDNPNLWVYPRSVGLANQELAEVSVRAVSGGYSCVTMGGDHS LAIGTIIGHARHRPDL CVI WVDAHADINTPLTTVSGNIHGQPLSFLIKELQDKVPQLPGFSWIKPCLSPPNIVYIGLRDVEPEHFILK NYDIQYFSMREIDRLGIQKVM EQTFDRLIGKRQRPIHLSFDIDAFDPK LAPATGTPVVGGLTYREGVYIT EEIHNTGLLSALDLVEVNP H L ATSEEEAKATARLAVDVIASSFGQTREGGHIVYDHLPTPSSPHESENEE CVRI</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-MYC/DDK
Predicted MW:	38.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_033835
Locus ID:	11847
UniProt ID:	O08691



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RefSeq Size: 1417

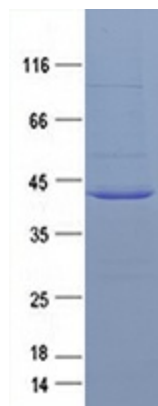
Cytogenetics: 12 C3

RefSeq ORF: 1065

Synonyms: All; AU022422

Summary: 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 CD4(+) and CD8(+) T cells (PubMed:27745970, PubMed:25009204). May suppress inflammation-related signaling in asthmatic airway epithelium (PubMed:27214549). May contribute to the immune evasion of H.pylori by restricting M1 macrophage activation and polyamine metabolism (PubMed:27074721). May play a role in promoting prenatal immune suppression (By similarity). Regulates RPS6KB1 signaling, which promotes endothelial cell senescence and inflammation and implicates NOS3/eNOS dysfunction (PubMed:22928666). Can inhibit endothelial autophagy independently of its enzymatic activity implicating mTORC2 signaling (PubMed:25484082). Involved in vascular smooth muscle cell senescence and apoptosis independently of its enzymatic activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Purified recombinant protein Arg2 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.