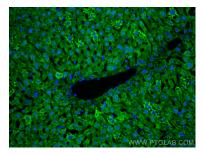
## For Research Use Only

## Arginase-1 Monoclonal antibody Catalog Number:66129-1-Ig Featured Product 125 Publications

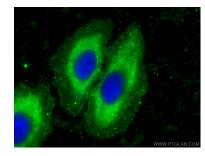
proteintech Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 66129-1-lg	GenBank Accession Number: BC005321		Purification Method: Protein G purification	
	Size: GeneID (NCBI):			CloneNo.:	
	150ul , Concentration: 1500 ug/ml by	383		5D6D12	
	Nanodrop;	UNIPROT ID:		Recommended Dilutions: WB: 1:5000-1:50000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:2000-1:5000 IF-P: 1:200-1:800 IF/ICC: 1:400-1:1600	
	Source: Mouse	P05089 Full Name: arginase, liver Calculated MW:			
	Isotype:				
	lgG1				
	Immunogen Catalog Number: AG8810	236aa,25 kDa; 322aa,35 kDa			
		Observed MW: 36 kDa			
Applications	Tested Applications:		Positive Controls:		
				liver tissue, rat liver tissue, mouse liver	
	Cited Applications: WB, IHC, IF		tissue, rabbit liver tissue		
	Species Specificity:		IP : mouse li		
	human, mouse, rat, pig, rabbit			liver tissue, human liver tissue	
	Cited Species:		IF-P : mouse		
	human, mouse, rat Note-IHC: suggested antigen r		IF/ICC : Hep	G2 cells, mouse liver tissue	
	TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0				
Background Information	Arginase-1 (Liver arginase) belongs to hepatocellular differentiation in fine neoplasms. ARG1 is closely associate protectmotor neurons from trophic fa inhibition by myelin proteins (PMID: produced by alternative splicing (PM or TNF-mediated restriction of ARG1 (PMID:27117406). Before stroke, ARG expression of ARG1 increases in micr	needle aspiration cyt ad with alternative ma ctor deprivation and a 20071539, PMID:1209 ID:16141327). Defects unleashes the product 1 mainly expressed ir oglia/macrophages a nicroglia/macrophage	tology and a ma acrophage activ Illow sensory ne 98359). It can ex in ARG1 are the tion of NO by NG n neurons in a ne nd astrocytes ex as and possesse	arker of hepatocytes and hepatocellular ration and ARG1 has been shown to eurons to overcome neurite outgrowth sist as a homotrimer and it has 3 isoform e cause of argininemia (ARGIN). Deletion DS2, which is critical for pathogen contro ormal brain (PMID: 23311438). The arly after CNS injuries. ARG1 has been s antiinflammatory and tissue repair	
	Arginase-1 (Liver arginase) belongs to hepatocellular differentiation in fine neoplasms. ARG1 is closely associate protectmotor neurons from trophic fa inhibition by myelin proteins (PMID: produced by alternative splicing (PM or TNF-mediated restriction of ARG1 (PMID:27117406). Before stroke, ARG expression of ARG1 increases in micr regarded as a marker for beneficial n properties under various pathologica	needle aspiration cyt ad with alternative ma ctor deprivation and a 20071539, PMID:1209 ID:16141327). Defects unleashes the product 1 mainly expressed ir oglia/macrophages a nicroglia/macrophage	tology and a ma acrophage activ Illow sensory ne 98359). It can ex in ARG1 are the tion of NO by NG n neurons in a ne nd astrocytes ex as and possesse 5538310, PMID: 1	arker of hepatocytes and hepatocellular ration and ARG1 has been shown to eurons to overcome neurite outgrowth sist as a homotrimer and it has 3 isoform e cause of argininemia (ARGIN). Deletio DS2, which is critical for pathogen contro ormal brain (PMID: 23311438). The arly after CNS injuries. ARG1 has been s antiinflammatory and tissue repair	
	Arginase-1 (Liver arginase) belongs thepatocellular differentiation in fine neoplasms. ARG1 is closely associate protectmotor neurons from trophic fainhibition by myelin proteins (PMID: produced by alternative splicing (PM or TNF-mediated restriction of ARG1 (PMID:27117406). Before stroke, ARG expression of ARG1 increases in micr regarded as a marker for beneficial m properties under various pathologication.	needle aspiration cyt ed with alternative ma ctor deprivation and a 20071539, PMID:1209 ID:16141327). Defects unleashes the product 1 mainly expressed in roglia/macrophages a nicroglia/macrophage l conditions (PMID: 26	tology and a ma acrophage activ Illow sensory ne 98359). It can ex in ARG1 are the tion of NO by NG n neurons in a ne nd astrocytes ex as and possesse 5538310, PMID: 1	arker of hepatocytes and hepatocellular vation and ARG1 has been shown to eurons to overcome neurite outgrowth sit as a homotrimer and it has 3 isoform e cause of argininemia (ARGIN). Deletio DS2, which is critical for pathogen contro ormal brain (PMID: 23311438). The arly after CNS injuries. ARG1 has been s antiinflammatory and tissue repair 31619589). Application	
	Arginase-1 (Liver arginase) belongs thepatocellular differentiation in fine neoplasms. ARG1 is closely associate protectmotor neurons from trophic fainhibition by myelin proteins (PMID: produced by alternative splicing (PM or TNF-mediated restriction of ARG1 (PMID:27117406). Before stroke, ARG expression of ARG1 increases in micr regarded as a marker for beneficial n properties under various pathologica	needle aspiration cyt ad with alternative ma ctor deprivation and a 20071539, PMID:1209 ID:16141327). Defects unleashes the product 1 mainly expressed in oglia/macrophages a nicroglia/macrophage l conditions (PMID: 26 pmed ID Jour 517076 Food	tology and a ma acrophage activ sensory ne v8359). It can ex in ARG1 are the tion of NO by NG n neurons in a n ind astrocytes ex as and possesse 5538310, PMID: 1	arker of hepatocytes and hepatocellular vation and ARG1 has been shown to eurons to overcome neurite outgrowth sit as a homotrimer and it has 3 isoform e cause of argininemia (ARGIN). Deletio DS2, which is critical for pathogen contro ormal brain (PMID: 23311438). The arly after CNS injuries. ARG1 has been s antiinflammatory and tissue repair 31619589). Application	
	Arginase-1 (Liver arginase) belongs to hepatocellular differentiation in fine neoplasms. ARG1 is closely associate protectmotor neurons from trophic fa inhibition by myelin proteins (PMID: produced by alternative splicing (PM or TNF-mediated restriction of ARG1 (PMID:27117406). Before stroke, ARG expression of ARG1 increases in micr regarded as a marker for beneficial m properties under various pathologicalAuthorPut Tong Wang342Zhengjiang Qian	needle aspiration cyt ad with alternative ma ctor deprivation and a 20071539, PMID:1209 ID:16141327). Defects unleashes the product 1 mainly expressed ir oglia/macrophages a nicroglia/macrophage l conditions (PMID: 26 med ID Jour 517076 Food	tology and a ma acrophage activ Illow sensory ne 8359). It can ex s in ARG1 are th ition of NO by NG n neurons in a ne nd astrocytes ei es and possesse 5538310, PMID: : mal d Chem Toxicol	arker of hepatocytes and hepatocellular ration and ARG1 has been shown to eurons to overcome neurite outgrowth sit as a homotrimer and it has 3 isoform e cause of argininemia (ARGIN). Deletio DS2, which is critical for pathogen contro- ormal brain (PMID: 23311438). The arly after CNS injuries. ARG1 has been s antiinflammatory and tissue repair 31619589). Application IF	
	Arginase-1 (Liver arginase) belongs to hepatocellular differentiation in fine neoplasms. ARG1 is closely associate protectmotor neurons from trophic fa inhibition by myelin proteins (PMID: produced by alternative splicing (PM or TNF-mediated restriction of ARG1 (PMID:27117406). Before stroke, ARG expression of ARG1 increases in micr regarded as a marker for beneficial m properties under various pathologicalAuthorPut Tong Wang342Zhengjiang Qian	needle aspiration cyt ad with alternative ma ctor deprivation and a 20071539, PMID:1209 ID:16141327). Defects unleashes the product 1 mainly expressed in roglia/macrophages a nicroglia/macrophages l conditions (PMID: 26 med ID Jour 517076 Food 572339 Biom	tology and a ma acrophage activ Illow sensory ne 98359). It can ex is in ARG1 are the is in ARG1 are the is n ARG1 are the is n ARG1 are the sin ARG1 are the s	arker of hepatocytes and hepatocellular ration and ARG1 has been shown to eurons to overcome neurite outgrowth sist as a homotrimer and it has 3 isoform e cause of argininemia (ARGIN). Deletic DS2, which is critical for pathogen contro ormal brain (PMID: 23311438). The arly after CNS injuries. ARG1 has been s antiinflammatory and tissue repair 31619589). Application IF WB	
Background Information	Arginase-1 (Liver arginase) belongs to hepatocellular differentiation in fine neoplasms. ARG1 is closely associate protectmotor neurons from trophic fainhibition by myelin proteins (PMID: produced by alternative splicing (PM or TNF-mediated restriction of ARG1 (PMID:27117406). Before stroke, ARG expression of ARG1 increases in micr regarded as a marker for beneficial n properties under various pathologica   Author Put   Tong Wang 34:   Zhengjiang Qian 34:   Storage: Storage   Storage Buffer: PBS with 0.02% sodium azide and 50	needle aspiration cyt ad with alternative ma ctor deprivation and a 20071539, PMID:1209 ID:16141327). Defects unleashes the product 1 mainly expressed in oglia/macrophages a nicroglia/macrophages l conditions (PMID: 26 000000000000000000000000000000000000	tology and a ma acrophage activ Illow sensory ne 98359). It can ex is in ARG1 are the is in ARG1 are the is n ARG1 are the is n ARG1 are the sin ARG1 are the s	arker of hepatocytes and hepatocellular ration and ARG1 has been shown to eurons to overcome neurite outgrowth sist as a homotrimer and it has 3 isoform e cause of argininemia (ARGIN). Deletio DS2, which is critical for pathogen contro- ormal brain (PMID: 23311438). The arly after CNS injuries. ARG1 has been s antiinflammatory and tissue repair 31619589). Application IF WB	
Notable Publications	Arginase-1 (Liver arginase) belongs to hepatocellular differentiation in fine neoplasms. ARG1 is closely associate protectmotor neurons from trophic fainhibition by myelin proteins (PMID: produced by alternative splicing (PM or TNF-mediated restriction of ARG1 (PMID:27117406). Before stroke, ARG expression of ARG1 increases in micr regarded as a marker for beneficial n properties under various pathologica   Author Put   Tong Wang 343   Zhengjiang Qian 344   Storage: Storage:   Storage Buffer: Storage Buffer:	needle aspiration cyt ad with alternative ma ctor deprivation and a 20071539, PMID:1209 ID:16141327). Defects unleashes the product 1 mainly expressed in oglia/macrophages a nicroglia/macrophages l conditions (PMID: 26 000000000000000000000000000000000000	tology and a ma acrophage activ Illow sensory ne 98359). It can ex is in ARG1 are the is in ARG1 are the is n ARG1 are the is n ARG1 are the sin ARG1 are the s	arker of hepatocytes and hepatocellular ration and ARG1 has been shown to eurons to overcome neurite outgrowth sist as a homotrimer and it has 3 isoform e cause of argininemia (ARGIN). Deletio DS2, which is critical for pathogen contro- ormal brain (PMID: 23311438). The arly after CNS injuries. ARG1 has been s antiinflammatory and tissue repair 31619589). Application IF WB	

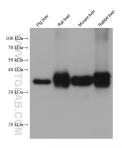
## Selected Validation Data



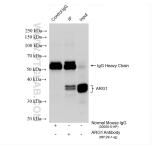
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Arginase-1 antibody (66129-1-Ig, Clone: 5D6D12) at dilution of 1:400 and Multi-rAb Coralite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Arginase-1 antibody (66129-1-Ig, Clone: 5D6D12) at dilution of 1:800 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



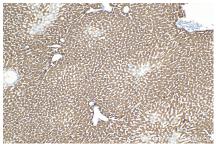
Various lysates were subjected to SDS PAGE followed by western blot with 66129-1-1g (Arginase-1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



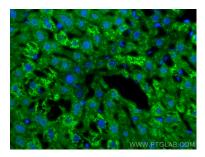
IP result of anti-Arginase-1 (IP:66129-1-Ig, 4ug; Detection:66129-1-Ig 1:10000) with mouse liver tissue lysate 2240 ug.



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 66129-1-Ig (Arginase-1 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse liver tissue slide using 66129-1-Ig (Arginase-1 antibody) at dilution of 1:4800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using Arginase-1 antibody (66129-1-Ig, Clone: 5D6D12) at dilution of 1:400 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).