

À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-Arginase-1



Numéro de catalogue: 16001-1-AP

245 Publications

Informations de base

Numéro de catalogue:	16001-1-AP	Numéro d'acquisition GenBank:	BC005321	Méthode de purification:	Purification par affinité contre l'antigène
Taille:	150ul, Concentration: 1000 µg/ml by Nanodrop;	Identification du gène (NCBI):	383	Dilutions recommandées:	WB 1:5000-1:50000 IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB IHC 1:50-1:500 IF 1:50-1:500
Hôte:	Lapin	Nom complet:	arginase, liver		
Isotype:	IgG	MW calculé	236aa,25 kDa; 322aa,35 kDa		
Immunogen Catalog Number:	AG8595	MW observés:	35-36 kDa		

Applications

Applications testées:

IF, IHC, IP, WB, ELISA

Demandes citées:

FC, IF, WB

Spécificité de l'espèce:

Humain, rat, souris

Espèces citées:

Humain, porc, rat, souris

Contrôles positifs:

WB : tissu hépatique de souris, tissu hépatique de rat

IP : tissu hépatique de souris,

IHC : tissu de cancer du foie humain,

IF : tissu de cancer du foie humain,

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.

Informations générales

Arginase-1 (Liver arginase) belongs to the arginase family. ARG1 is a novel immunohistochemical marker of hepatocellular differentiation in fine needle aspiration cytology and a marker of hepatocytes and hepatocellular neoplasms. ARG1 is closely associated with alternative macrophage activation and ARG1 has been shown to protect motor neurons from trophic factor deprivation and allow sensory neurons to overcome neurite outgrowth inhibition by myelin proteins (PMID: 20071539, PMID:12098359). It can exist as a homotrimer and it has 3 isoforms produced by alternative splicing (PMID:16141327). Defects in ARG1 are the cause of argininemia (ARGIN). Deletion or TNF-mediated restriction of ARG1 unleashes the production of NO by NOS2, which is critical for pathogen control (PMID:27117406). ARG1 mainly expresses in neurons in a normal brain. The expression of ARG1 increases in microglia/macrophages and astrocytes early after CNS injuries. ARG1 has been regarded as a marker for beneficial microglia/macrophages and possesses anti-inflammatory and tissue repair properties under various pathological conditions (PMID: 26538310, PMID: 31619589).

Publications notables

Autrice	Pubmed ID	Journal	Application
Shiao Tong	36248799	Front Immunol	WB,IHC
Meili Wu	30266587	Brain Res Bull	WB
Yifei Zhou	36242920	Biochem Biophys Res Commun	IHC

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

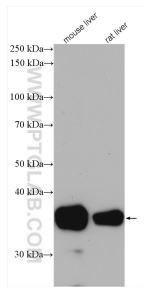
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

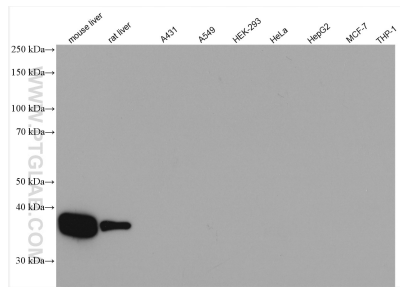
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

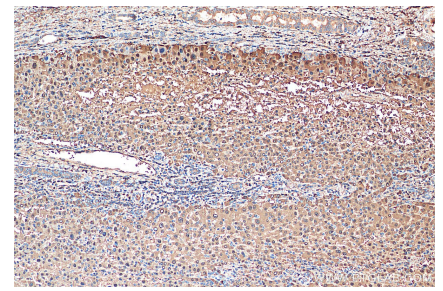
Données de validation sélectionnées



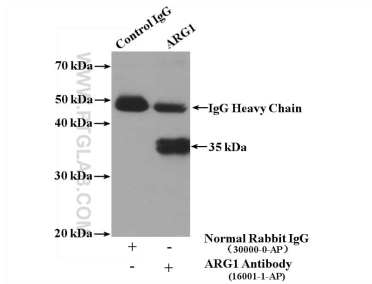
Various lysates were subjected to SDS PAGE followed by western blot with 16001-1-AP (ARG1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



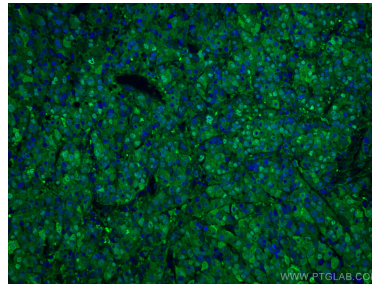
Various lysates were subjected to SDS PAGE followed by western blot with 16001-1-AP (ARG1 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours; mouse liver tissue and rat liver tissue are positive, other cells express no or low ARG1 under normal condition.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16001-1-AP (Arginase-1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-ARG1 (IP:16001-1-AP, 4ug; Detection:16001-1-AP 1:700) with mouse liver tissue lysate 5200ug.



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using Arginase-1 antibody (16001-1-AP) at dilution of 1:200 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).