

## Allgemeine Informationen

## Katalog-Nr.:

66129-1-Ig

## Größe:

150ul, Konzentration: 1800 µg/ml von383

Nanodrop und 1000 µg/ml durch die Bradford-Methode mit BSA als Standard;

## Wirt:

Maus

## Isotyp:

IgG1

## Immunogen Katalognummer:

AG8810

## GenBank-Zugangsnummer:

BC005321

## GeneID (NCBI):

383

## Vollständiger Name:

arginase, liver

## Berechnete Masse:

236aa,25 kDa; 322aa,35 kDa

## Beobachtete Masse:

36 kDa

## Reinigungsmethode:

Protein-A-Reinigung

## CloneNo.:

5D6D12

## Empfohlene Verdünnungen:

WB 1:1000-1:10000

IP 0.5-4.0 ug für IP und 1:500-1:2000

für WB

IHC 1:200-1:1000

## Anwendungen

## Geprüfte Anwendungen:

IHC, IP, WB, ELISA

## In Publikationen genannte Anwendungen:

IF, IHC, WB

## Getestete Reaktivität:

Hausschwein, Human, Maus, Ratte

## Zitierte Arten:

Human, Maus, Ratte

**Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

## Positivkontrollen:

WB: Rattenlebergewebe, Hausschwein-Lebergewebe, Mauslebergewebe, RAW 264.7-Zellen

IP: Rattenlebergewebe,

IHC: humanes Leberkarzinomgewebe, humanes Lebergewebe

## Hintergrundinformationen

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).

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Tong Wang	34517076	Food Chem Toxicol	IF
Zhengjiang Qian	34572339	Biomedicines	WB
Yasir Abdul	32875455	Transl Stroke Res	IF

## Lagerung

## Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

## Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

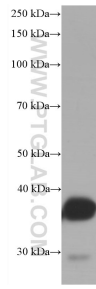
For technical support and original validation data for this product please contact:

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

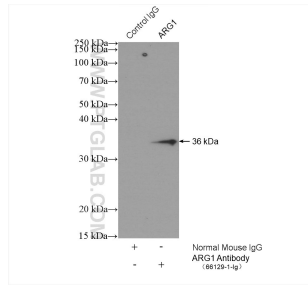
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

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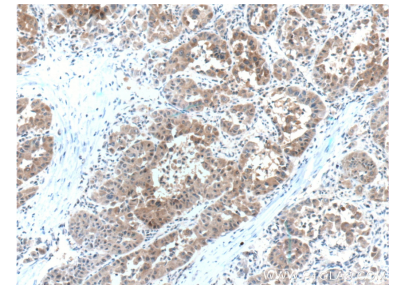
## Ausgewählte Validierungsdaten



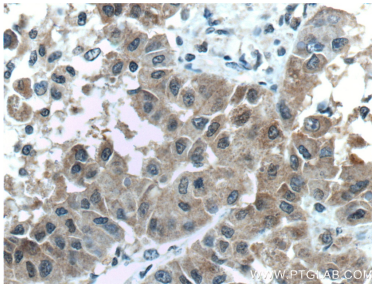
rat liver tissue were subjected to SDS PAGE followed by western blot with 66129-1-Ig (ARG1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



IP result of anti-ARG1 (IP:66129-1-Ig, 5ug; Detection:66129-1-Ig 1:1000) with rat liver tissue lysate 5520 ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66129-1-Ig (ARG1 Antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66129-1-Ig (ARG1 Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).