

Anti-Arginase 1/ARG1 Antibody (5G793)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5G793
Purification:	Affinity-chromatography

Applications

Verified Activity:	IHC image of TMAH-00080 diluted at 1:50 and staining in paraffin-embedded human liver cancer performed on a Leica Bond TM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.71% DAB.
Application:	ELISA, IHC
Recommended	IHC:1:50-1:200.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human ARG1
Antigen Species:	Human
Gene ID:	383
Uniprot ID:	P05089
Synonyms:	ARG1;arginase 1
Biology Area:	Metabolism, Signal transduction

Research Background

Key element of the urea cycle converting L-arginine to urea and L-ornithine, which is further metabolized into metabolites proline and polyamides that drive collagen synthesis and bioenergetic pathways critical for cell proliferation, respectively; the urea cycle takes place primarily in the liver and, to a lesser extent, in the kidneys. Functions in L-arginine homeostasis in nonhepatic tissues characterized by the competition between nitric oxide synthase (NOS) and arginase for the available intracellular substrate arginine. Arginine metabolism is a critical regulator of innate and adaptive immune responses. Involved in an antimicrobial effector pathway in polymorphonuclear granulocytes (PMN). Upon PMN cell death is liberated from the phagolysosome and depletes arginine in the microenvironment leading to suppressed T cell and natural killer (NK) cell proliferation and cytokine secretion. In group 2 innate lymphoid cells (ILC2s) promotes acute type 2 inflammation in the lung and is involved in

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optimal ILC2 proliferation but not survival. In humans, the immunological role in the monocytic/macrophage/dendritic cell (DC) lineage is unsure.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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