

**MONOCLONAL ANTIBODY TO
HUMAN TYPE-1 ARGINASE**
clone 6G3



Catalog nr	HM2162 (lot number and expiry date are indicated on the label)
Description	Monoclonal antibody 6G3 reacts specifically with Arginase I, the final enzyme in the urea cycle, which is responsible for the hydrolysis of arginine to urea and ornithine. The highest concentration of the enzyme is present in the liver in which the bulk of ureagenesis occurs. Two types of arginases are known: Arginase I and II. The cytosolic enzyme found primarily in liver is Arginase I, a 35 kD protein that circulates as trimer. Arginase II is exclusively located in the mitochondrion. Arginase I is next to the liver in man also expressed by mature fetal and adult red blood cells and activated monocytic cells. During inflammation induction of Arginase I by inflammatory cytokines in monocytic cells is considered to lead to a local depletion of arginine resulting in a microenvironment that prevents nitric oxide production and arginine dependent T cell function. Arginase II is expressed by kidney, nucleated red blood cells, brain, spinal cord, gastrointestinal tract, mammary gland and prostate. Enhanced circulating Arginase I levels have been reported after surgery, following haemorrhage and in asthmatic patients. Measurement of circulating Arginase I has been used experimentally as rapid marker for liver injury.
Species	Mouse IgG ₁
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The monoclonal antibody 6G3 can be used for immuno precipitation. Furthermore the monoclonal antibody 6G3 is useful as coating in immuno assays.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
References	1. Ikemoto, M et al; A useful ELISA system for human liver-type arginase, and its utility in diagnosis of liver diseases. Clin Biochem 2001, 34: 455
Also available	HM2049 Monoclonal antibody against Human L-FABP, clone L2B10 HM2163 Monoclonal antibody against Human type-1 Arginase, clone 9C5 HM3020 Monoclonal antibody against rat ASGPR, clone 8D7 (cross reactive with human)