Anti– human Arginase 1 Mouse Monoclonal Antibody

Clone: 4E6 **REF** RU00080

Intended use
Anti- human Arginase 1 (Clone: 4E6) Mouse Monoclonal Primary Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

Background
Arginase catalyzes the hydrolysis of arginine to ornithine and urea. At least two isoforms of mammalian arginase exist (types I and II) which differ in their tissue distribution, subcellular localization, immunologic crossreactivity and physiologic function. The type I isoform encoded by this gene, is a cytosolic enzyme and expressed predominantly in the liver as a component of the urea cycle. Inherited deficiency of this enzyme results in argininemia, an autosomal recessive disorder characterized by hyperammonemia. [provided by RefSeq].

Alternative names: ARG1; OTTHUMP00000017209; Arginase 1; liver-type arginase; type I arginase; arginase, liver.

Reagent provided
Anti-human Arginase 1 Mouse Monoclonal Primary Antibody (Clone: 4E6) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1, k. The protein concentration is approximately 0.2 +/ - 0.05 mg/mL.

For immunohistochemistry, the primary antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissue. It can be dependent upon the detection system used. These are guidelines only, and optimal dilutions should be determined by the individual laboratory.

Immunogen
Full length human recombinant protein of human Arginase 1 (NP_000036) was produced in HEK293T cell.

Specificity
The specificity of the anti- human Arginase 1 Mouse Monoclonal Primary Antibody was established on known positive human liver. The anti-human Arginase 1 presented no staining on human pancreas tissue and positive staining on human liver using immunohistochemical (IHC) test methods.

Precautions
1. This product contains sodium azide (NaN_3), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, NaN_3 may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
2. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
3. Unused reagents should be disposed of according to local, State, and Federal regulations.
4. Suitability for specific application may vary and it is the responsibility of the end user to determine the appropriate application for use and stability.

Storage
Store at 2-8ºC. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

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