**BACKGROUND**

Arginase 1 (also designated liver-type arginase), which is expressed almost exclusively in the liver, catalyzes the conversion of arginine to ornithine and urea. Arginase 1 exists as a homotrimeric protein and contains a binuclear manganese cluster. Arginase II catalyzes the same reaction as arginase I, but differs in its tissue specificity and subcellular location. Specifically, arginase II localizes to the mitochondria. Arginase II is expressed in non-hepatic tissues, with the highest levels of expression in the kidneys, but, unlike arginase I, is not expressed in liver. In addition, arginase II contains a putative amino-terminal mitochondrial localization sequence.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ARG1 (human) mapping to 6q23.2, ARG2 (human) mapping to 14q24.1; Arg1 (mouse) mapping to 10 A4, Arg2 (mouse) mapping to 12 C3.

**SOURCE**

Arginase 1 (8C9) is a mouse monoclonal antibody raised against recombinant Arginase 1 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

Arginase 1 (8C9) is recommended for detection of Arginase 1 and Arg2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

Molecular Weight of Arginase 1 isoforms: 35/38 kDa.

Positive Controls: Arginase 1 (h): 293T Lysate: sc-159833 or mouse liver extract: sc-2256.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

![Western blot analysis](image)

**SELECT PRODUCT CITATIONS**


See Arginase 1 (C-2): sc-166920 for Arginase 1 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.