

arginase II (291-354): sc-4497 WB

BACKGROUND

Arginase I (also designated liver-type arginase), which is expressed almost exclusively in the liver, catalyzes the conversion of arginine to ornithine and urea. The human arginase I gene, which maps to chromosome 6q23, encodes a 322 amino acid protein with a molecular mass of approximately 37 kDa. Arginase I 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. The human arginase II gene, which maps to chromosome 14q24.1-q24.3, encodes a 354 amino acid protein with a molecular mass of 39 kDa. In addition, arginase II contains a putative amino-terminal mitochondrial localization sequence.

REFERENCES

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SOURCE

arginase II (291-354) is expressed in *E. coli* as a 34 kDa tagged fusion protein corresponding to amino acids 291-354 of arginase II of human origin.

PRODUCT

arginase II (291-354) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

arginase II (291-354) is suitable as a Western blotting control for sc-18357 and sc-20151.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

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