

# Arginase 1 (Hepatocellular Carcinoma Marker); Clone ARG1/1125 (Concentrate)

|                               |               |               |
|-------------------------------|---------------|---------------|
| <b>Availability/Contents:</b> | <u>Item #</u> | <u>Volume</u> |
|                               | RA0457-C.1    | 0.1 ml        |
|                               | RA0457-C.5    | 0.5 ml        |
|                               | RA0457-C1     | 1 ml          |

**Description:**

|                          |  |
|--------------------------|--|
| Species:                 | Mouse  |
| Immunogen:               | Recombinant fragment (87 amino acid residues around 1-150) of human ARG1 protein.  |
| Clone:                   | ARG1/1125  |
| Isotype:                 | IgG2b, kappa   |
| Entrez Gene ID:          | 383 (Human)  |
| Hu Chromosome Loc.:      | 6q23   |
| Synonyms:                | Arginase 1; ARG1; liver-type arginase; type I arginase.  |
| Mol. Weight of Antigen:  | 35-38kDa   |
| Format:                  | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.   |
| Specificity:             | This antibody recognizes a protein of 35-38kDa, which is identified as Arginase 1 (ARG1).  |
| Background:              | Arginase is a manganese metallo-enzyme that catalyzes the hydrolysis of arginine to generate ornithine and urea. Arginase I and II are isoenzymes which differ in subcellular localization, regulation, and possibly function. Arginase I is a cytosolic enzyme, which is expressed mainly in the liver as part of the urea cycle, whereas arginase II is a mitochondrial protein found in a variety of tissues. Antibody to ARG-1 labels hepatocytes in normal tissues and granulocytes in peripheral blood. ARG-1 is a sensitive and specific marker for identification of hepatocellular carcinoma. |
| Species Reactivity:      | Human. Others not known.   |
| Positive Control:        | 293T cells. Hepatocellular Carcinoma (HCC).  |
| Cellular Localization:   | Cytoplasmic  |
| Titer/ Working Dilution: | Immunohistochemistry (Frozen and Formalin-fixed): 0.5-1 µg/ml  |
|                          | Flow Cytometry: 0.5-1 µg/million cells   |
|                          | Immunofluorescence: 1-2 µg/ml  |
|                          | Western Blotting: 0.5-1 µg/ml  |
| Microbiological State:   | This product is not sterile.   |

Storage: 2° C  8° C



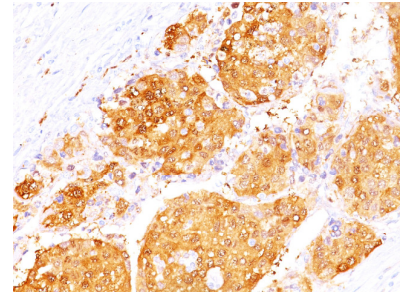
ScyTek Laboratories, Inc.  
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 Logan, UT 84321  
 U.S.A.

**CE**

EC REP

Emergo Europe  
 Prinsessegracht 20  
 2514 AP The Hague, The Netherlands

**Uses/Limitations:** Not to be taken internally.  
 For Research Use Only.  
 This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy.  
 Do not use if reagent becomes cloudy.  
 Do not use past expiration date.  
 Non-Sterile.



Formalin-fixed, paraffin-embedded human hepatocellular carcinoma stained with Arginase 1; Clone ARG1/1125.

**Ordering Information and Current Pricing at [www.scytek.com](http://www.scytek.com)**

**Procedure:**

1. **Tissue Section Pretreatment (Required):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
2. **Primary Antibody Incubation Time:** We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
3. **Visualization:** For maximum staining intensity we recommend the “UltraTek HRP Anti-Polyvalent Lab Pack” (ScyTek catalog# UHP125, see IFU for instructions) combined with the “DAB Chromogen/Substrate Bulk Pack (High Contrast)” (ScyTek catalog# ACV500, see IFU for instructions).

**Precautions:**


Contains Sodium Azide as a preservative (0.09% w/v).  
 Do not pipette by mouth.  
 Avoid contact of reagents and specimens with skin and mucous membranes.  
 Avoid microbial contamination of reagents or increased nonspecific staining may occur.  
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.


**References:**

1. Diez, A., et al. 1994. Immunological identity of the two different molecular mass constitutive subunits of liver arginase. Biol. Chem. Hoppe Seyler 375: 537-541.

**Warranty:**

No products or “Instructions For Use (IFU)” are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our IFU or website. Our warranty is limited to the actual price paid for the product. ScyTek Laboratories, Inc. is not liable for any property damage, personal injury, time or effort or economic loss caused by our products. Immunohistochemistry is a complex technique involving both histological and immunological detection methods. Tissue processing and handling prior to immunostaining can cause inconsistent results. Variations in fixation and embedding or the inherent nature of the tissue specimen may cause variations in results. Endogenous peroxidase activity or pseudoperoxidase activity in erythrocytes and endogenous biotin may cause non-specific staining depending on detection system used.

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