

Angiotensin I Converting Enzyme (ACE) / CD143; Clone ACE/3764 (Concentrate)

Availability/Contents:	Item #	Volume
	RA0748-C.1	0.1 ml
	RA0748-C.5	0.5 ml
	RA0748-C1	1 ml

Description:

Species:	Mouse
Immunogen:	Full-length recombinant human ACE/CD143 protein
Clone:	ACE/3764
Isotype:	IgG1 / Kappa
Entrez Gene ID:	1636
Hu Chromosome Loc.:	17q23.3
Synonyms:	Angiotensin-converting enzyme, Dipeptidyl carboxypeptidase I, Kininase II, ACE; ACE1; angiotensin 1 converting enzyme 1; carboxypeptidase; CD143; CD143 antigen; DCP; DCP1; dipeptidyl carboxypeptidase 1; Kininase II; MVCD3; peptidase P; testicular ECA
Mol. Weight of Antigen:	150kDa
Format:	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Specificity:	Recognizes a protein of 150kDa, identified as Angiotensin I Converting Enzyme (ACE).
Background:	This gene encodes an enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system. Many studies have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme or cardiovascular pathophysiologies. Two most abundant alternatively spliced variants of this gene encode two isozymes – the somatic form and the testicular form that are equally active. Multiple additional alternatively spliced variants have been identified but their full length nature has not been determined.
Species Reactivity:	Human
Positive Control:	Gastrointestinal system and prostate, Heart, Kidney, Ubiquitously expressed, with highest levels in lung.
Cellular Localization:	Cell membrane, Cytoplasm, Secreted
Titer/ Working Dilution:	Immunohistochemistry (Frozen and Formalin-fixed): 1-2µg/ml
Microbiological State:	This product is not sterile.

Storage: 2° C  8° C

 ScyTek Laboratories, Inc.
 205 South 600 West
 Logan, UT 84321
 U.S.A.

Instructions For Use RA0748-C-IFU-RUO

Rev. Date: Oct 1, 2025

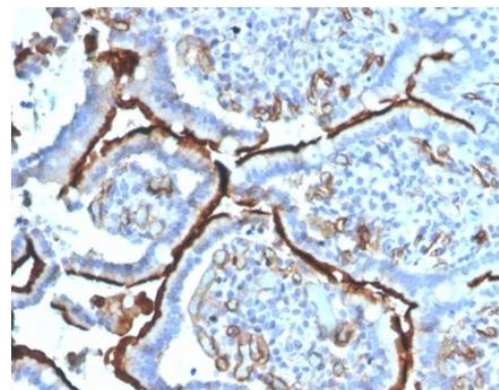
Revision: 1

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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.



Ordering Information and Current Pricing at www.scytek.com

Formalin-fixed, paraffin-embedded human colon carcinoma stained with Angiotensin I Converting Enzyme (ACE) / CD143 Antibody (ACE/3764)

Procedure:

- Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Tris-EDTA Solution (10x) pH 9.0 (ScyTek catalog# TES500) or Citrate Plus (10x) HIER Solution (ScyTek catalog# CPL500).
- 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.
- 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:

- Morell NW et al. Cardiovasc Res. 1997 May;34(2):393-403.

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.

Storage: 2° C  8° C



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