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MOUSE ANTI-ANGIOTENSIN-CONVERTING ENZYME (ACE) (CD143) MONOCLONAL ANTIBODY

CATALOG NUMBER:	MAB3502	**QUANTITY:**	100µg
LOT NUMBER:		**CONCENTRATION:**	xxx mg/mL
CLONE NAME:	2E2	**ISOTYPE:**	IgG_1

SPECIFICITY: Denatured Angiotensin-converting enzyme [ACE].

IMMUNOGEN: Angiotensin-converting enzyme (denatured) from human kidney

APPLICATIONS: Immunohistochemistry on paraffin embedded tissue: 5-10 µg/mL. Other antibodies to ACE has been used successfully for: 1) the study of ACE expression during human pathology (myocardial infarction, pulmonary hypertension, atherosclerosis, kidney diseases [1-7]) as well as using animal models ([4, 8-9]), 2) testicular cancer diagnostics ([10,11]) and 3) differentiating mesothelioma from adenocarcinoma ([12]).
Western blotting: 5 µg/mL. Sensitivity: 100 mU/mL of human or rat ACE activity (1:20 dilution of human ACE (Catalog number AG 761) or rat ACE (Catalog number AG 782), respectively, which correspond to 100 ng/lane)
Optimal working dilutions must be determined by the end user.

SPECIES REACTIVITY: Human, monkey, rabbit, bovine, canine, feline, guinea pig, rat and mouse.

FORMAT: Purified immunoglobulin

PRESENTATION: Liquid in PBS, pH 7.4, 150 mM NaCl. Contains no preservative.

STORAGE/HANDLING: Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.

REFERENCES:

1. Balyasnikova et. al. Monoclonal antibodies to denatured human ACE (CD143): broad species specificity, reactivity on paraffin sections, and detection of subtle conformational changes in the C-terminal domain of ACE. TISSUE ANTIGENS 61:49-62, 2003.
2. O'Brien et al. Association of angiotensin-converting enzyme with low density lipoprotein in aortic valvular lesions and in human plasma. CIRCULATION 106: 2224-2230, 2002.

Now Available – Angiotensin Converting Enzyme ELISA Assay
Catalog Number ACE100
Contact Millipore for further information

RELATED REFERENCES:

3. Franke F. et al. Angiotensin I-Converting Enzyme (CD 143) on endothelial cells in normal and pathological conditions. In: Leucocyte Typing VI: (Eds. Kishimoto et al.) Garland Publishing Inc. NY, 749-751,1997.
4. Falkenhahn M. et al. Cellular distribution of angiotensin converting enzyme after myocardial infarction. HYPERTENSION 25: 219-226, 1995.
5. Haberbosch V. et al. The expression of angiotensin-I converting enzyme in human atherosclerotic plaques is not related to the deletion/insertion polymorphism but to the risk of restenosis after Directional Coronary Atherectomy. ATHEROSCLEROSIS.130: 203-213, 1997.
6. Metzger et al. CD 143 in the development of atherosclerosis. ATHEROSCLEROSIS, 150:21-31, 2000.
7. Metzger R. et al. Distribution of Angiotensin I-Converting enzyme (CD 143) in the normal human kidney and in non-neoplastic kidney diseases. KIDNEY INT. 56:1442-1454, 1999.
8. Morrell NW et al. Angiotensin-converting enzyme expression is increased in small pulmonary arteries of rats with hypoxia-induced pulmonary hypertension. J.CLIN.INVEST. 95:1823-1833, 1995.
9. Morrell NW et al. Right ventricular angiotensin converting enzyme activity and expression is increased during hypoxic pulmonary hypertension. CARDIOVASC.RES. 34: 393-405, 1997.
10. Pauls K. et al. Angiotensin-converting enzyme (CD 143) in neoplastic germ cells LAB.INVEST. 79:1425-1435, 1999.
11. Franke F. et al. Somatic isoform of angiotensin-converting enzyme in the pathology testicular germ cell tumors. HUMAN PATHOL. 31:1466-1476, 2000.
12. Chenard-Neu M. et al. Differentiation of mesothelioma and adenocarcinoma. ANN.PATHOL.18: 460-465, 1998.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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