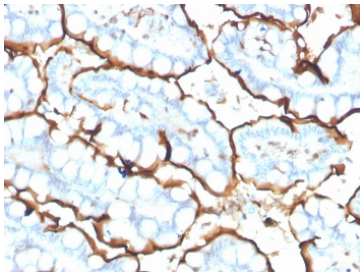
ACE Antibody / Angiotensin I Converting Enzyme [clone ACE/3765] (V8535)

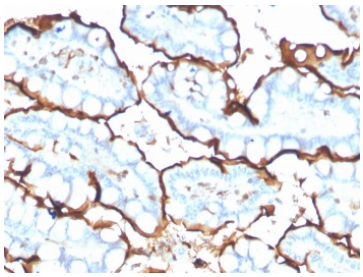
Catalog No.	Formulation	Size
V8535-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8535-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8535SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

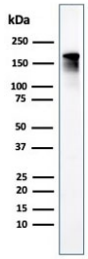
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	ACE/3765
Purity	Protein G affinity chromatography
UniProt	P12821
Localization	Cell surface, cytoplasm
Applications	Western blot: 1-2ug/ml ELISA: order Ab without BSA for coating Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Limitations	This ACE antibody is available for research use only.



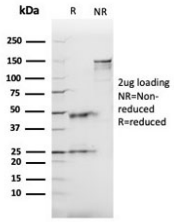
IHC staining of FFPE human small intestine with ACE antibody. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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Western blot testing of human kidney lysate with ACE antibody. Expected molecular weight 140-170+ kDa depending on glycosylation level.



SDS-PAGE analysis of purified, BSA-free ACE antibody (clone ACE/3765) as confirmation of integrity and purity.

Description

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.

This antibody can be compared with our Angiotensin Converting Enzyme Antibody (clone ACE/3764) for consistent detection of ACE / CD143 in endothelial and vascular biology studies.

Application Notes

Optimal dilution of the ACE antibody should be determined by the researcher.

Immunogen

A portion of amino acids 652-788 from the human protein was used as the immunogen for the ACE antibody.

Storage

Store the ACE antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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