

Mouse Anti-ACE2/Angiotensin Converting Enzyme 2 [E11]: MC0383

Intended Use: For Research Use Only

Description: Carboxypeptidase which converts angiotensin I to angiotensin 1-9, a peptide of unknown function, and angiotensin II to angiotensin 1-7, a vasodilator. Also able to hydrolyze apelin-13 and dynorphin-13 with high efficiency. May be an important regulator of heart function. In case of human coronaviruses SARS and HCoV-NL63 infections, serve as functional receptor for the spike glycoprotein of both coronaviruses.

Specifications:

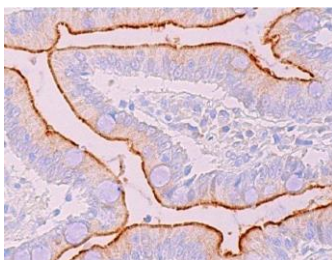
Clone: E11
Source: Mouse
Isotype: IgG1k
Concentration: 100ug/ml
Reactivity: Human, mouse, rat
Immunogen: Amino acids 631-805 of human ACE2
Localization: Membrane
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC: 50-200, ELISA: 20-1000, ICC/IF: 50-200, IP: 1-2µg per 100-500µg of total protein (1 ml of cell lysate), WB: 100-1000

Package:

Description	Catalog No.	Size
ACE2/Angiotensin Converting Enzyme 2 Concentrated	MC0383	1 ml

IHC Procedure*:

Positive Control Tissue: Kidney, testis
Concentrated Dilution: 50-200
Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human small intestine stained with anti-ACE2 using DAB

References:

1. Enteroendocrine-derived glucagon-like peptide-2 controls intestinal amino acid transport. Lee J, et al. Mol Metab 6:245-255, 2017.
2. A Low-Protein Diet Enhances Angiotensin II Production in the Lung of Pregnant Rats but not Nonpregnant Rats. Gao H, et al. J Pregnancy 2016:4293431, 2016.
3. Gestational protein restriction increases angiotensin II production in rat lung. Gao H, et al. Biol Reprod 88:64, 2013.
4. Maternal protein restriction reduces expression of angiotensin I-converting enzyme 2 in rat placental labyrinth zone in late pregnancy. Gao H, et al. Biol Reprod 86:31, 2012.

Doc. 100-MC0383
Rev. B