

ACE2 (PT0084R) PT® Rabbit mAb

Catalog No :	YM8047
Reactivity :	Human;
Applications :	WB;IHC;IF;IP;ELISA
Target :	ACE2
Gene Name :	ACE2 UNQ868/PRO1885
Protein Name :	ACE2
Human Gene Id :	59272
Human Swiss Prot No :	Q9BYF1
Mouse Gene Id :	70008
Mouse Swiss Prot No :	Q8R0I0
Rat Gene Id :	302668
Rat Swiss Prot No :	Q5EGZ1
Specificity :	endogenous
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:1000-1:4000;WB 1:1000-1:5000;IF 1:200-1:1000;ELISA 1:5000-1:20000;IP 1:50-1:200;
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 130kD

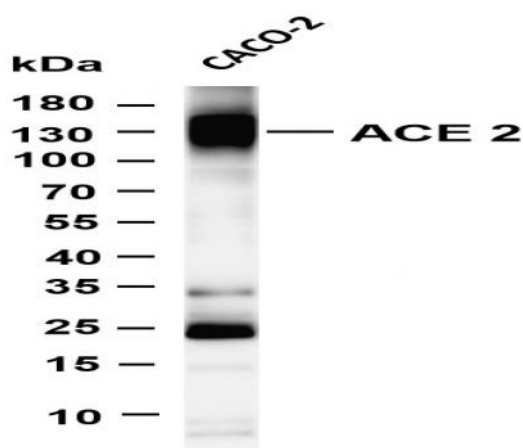
Observed Band : 130kD

Function : cofactor: Binds 1 chloride ion per subunit., cofactor: Binds 1 zinc ion per subunit., enzyme regulation: Activated by chloride and fluoride, but not bromide. Inhibited by MLN-4760, cFP_Leu, and EDTA, but not by the ACE inhibitors linosipril, captopril and enalaprilat., function: 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., induction: Up-regulated in failing heart., PTM: N-glycosylation on Asn-90 may limit SARS infectivity., similarity: Belongs to the peptidase M2 family., subunit: Interacts with ITGB1. Interacts with SARS-CoV and HCoV-NL63

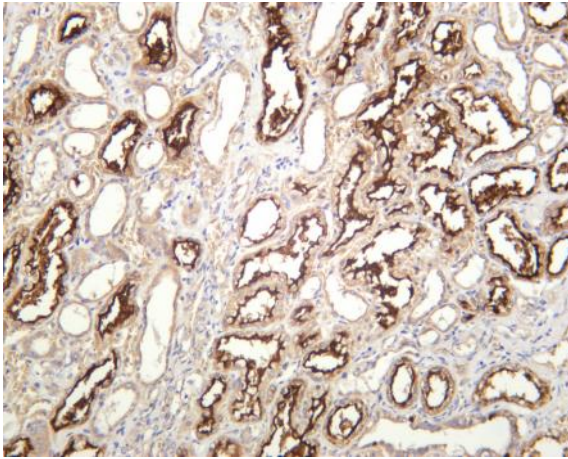
Subcellular Location : Membrane

Expression : Expressed in endothelial cells from small and large arteries, and in arterial smooth muscle cells (at protein level) (PubMed:15141377). Expressed in enterocytes of the small intestine, Leydig cells and Sertoli cells (at protein level) (PubMed:15141377). Expressed in the renal proximal tubule and the small intestine (at protein level) (PubMed:18424768). Expressed in heart, kidney, testis, and gastrointestinal system (at protein level) (PubMed:10969042, PubMed:10924499, PubMed:15231706, PubMed:12459472, PubMed:15671045, PubMed:32715618, PubMed:32170560). In lung, expressed at low levels in some alveolar type 2 cells, the expression seems to be individual-specific (at protein level) (PubMed:32425701, PubMed:15141377, PubMed:32715618, PubMed:32170560, PubMed:33432184). Expressed in nasal epith

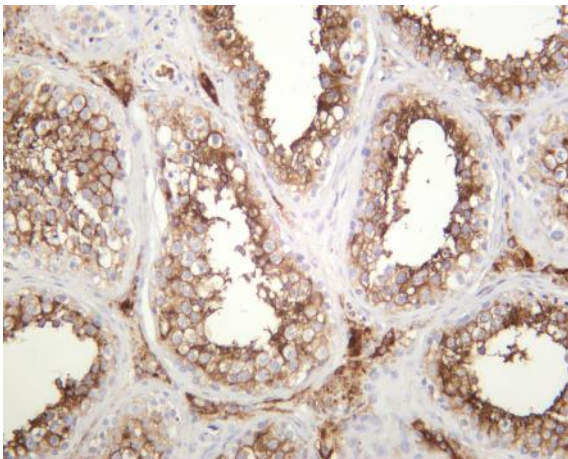
Products Images



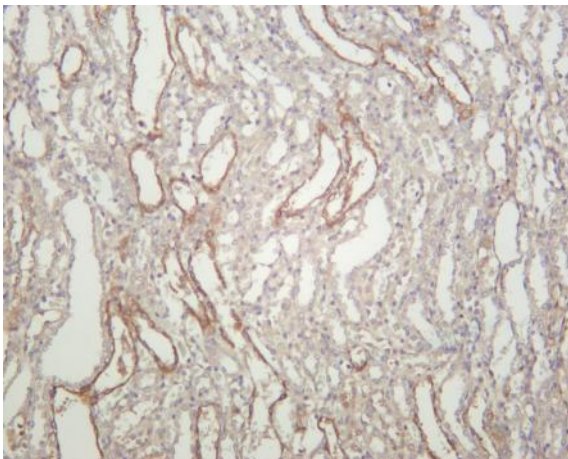
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-ACE2 (PT0084R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: CACO-2
Predicted band size: 130kDa
Observed band size: 130kDa



Human kidney was stained with anti-ACE2 (PT0084R) rabbit antibody



Human testis was stained with anti-ACE2 (PT0084R) rabbit antibody



Rat kidney was stained with anti-ACE2 (PT0084R) rabbit antibody