

For Research Use Only

# CoraLite®488-conjugated ACE2 Monoclonal antibody



Catalog Number: CL488-66699

2 Publications

## Basic Information

<b>Catalog Number:</b> CL488-66699	<b>GenBank Accession Number:</b> BC048094	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 59272	<b>CloneNo.:</b> 2F12A4
<b>Source:</b> Mouse	<b>Full Name:</b> angiotensin I converting enzyme (peptidyl-dipeptidase A) 2	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 805 aa, 92 kDa	<b>Excitation/Emission maxima wavelengths:</b> 488 nm/515 nm
<b>Immunogen Catalog Number:</b> AG15554		

## Applications

<b>Tested Applications:</b> FC, IF	<b>Positive Controls:</b> IF : human kidney tissue,
<b>Cited Applications:</b> FC, IF	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human	

## Background Information

ACE2 (Angiotensin-converting enzyme 2), also named as ACEH, is a zinc metalloprotease of the ACE family and a critical regulator of the reninangiotensin system. ACE2 has a more restricted tissue distribution than ACE, being found predominantly in the heart, kidneys, and testes although low levels have been detected in a variety of tissues (PMID:15983030). ACE2 has been shown to be a functional receptor of the human coronaviruses SARS-CoV and SARS-CoV-2 (PMID: 32142651). The expression level and expression pattern of human ACE2 in different tissues might be critical for the susceptibility, symptoms, and outcome of 2019-nCoV/SARS-CoV-2 infection (PMID: 32133153). It can be used as a potential therapeutic target of SARS-CoV-2 (PMID: 32125455). The calculated molecular weight of ACE2 is 92kDa but it migrates to 120kDa due to N-glycosylation (PMID:16166094). Sometimes, several cleaved fragments can also be detected as 75kDa, 50 kDa or 37kDa (PMID: 29561187, 22009550, 30759273). It has 2 isoforms produced by alternative splicing. This antibody is specific to ACE2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Feng Xie	34665481	Adv Mater	FC
Shouwen Du	35045269	J Virol	IF

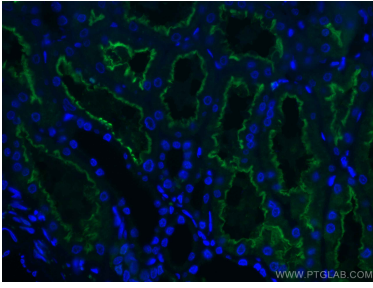
## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

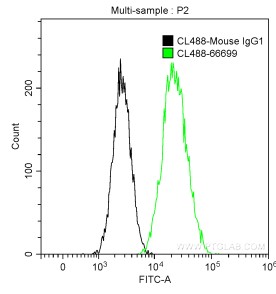
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using CoraLite®488 ACE2 antibody (CL488-66699, Clone: 2F12A4) at dilution of 1:200.



1X10<sup>6</sup> NIH/3T3 cells were stained with 1 ug CoraLite®488-conjugated Anti-Human ACE2 (CL488-66699, Clone:2F12A4) (green), and 1 ug Control Antibody. Cells were fixed with 90% MeOH.