

ACE2 Recombinant antibody, PBS Only

Catalog Number: 80063-1-PBS

Basic Information

Catalog Number: 80063-1-PBS	GenBank Accession Number: BC048094	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 59272	CloneNo.: 4H12
Source: Rabbit	UNIPROT ID: Q9BYF1	
Isotype: IgG	Full Name: angiotensin I converting enzyme (peptidyl-dipeptidase A) 2	
Immunogen Catalog Number: AG30683	Calculated MW: 805 aa, 92 kDa	

Applications

Tested Applications:
Indirect ELISA, IHC, IF

Species Specificity:
Human

Background Information

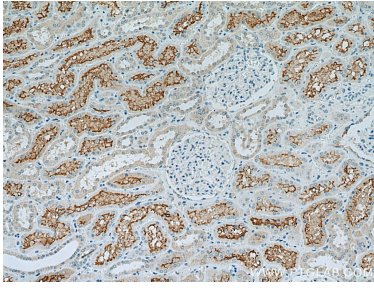
ACE2 (Angiotensin-converting enzyme 2), also named as ACEH, is a zinc metalloprotease of the ACE family and a critical regulator of the reninangiotensin system. ACE2 has a more restricted tissue distribution than ACE, being found predominantly in the heart, kidneys, and testes although low levels have 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. The location of ACE2 is membrane and cytoplasm, however it accumulates in the nucleus during the mitosis (PMID: 1730413/PMID: 18292088). 80063-1-RR is specific for ACE2, and its antigen region is 30-356aa.

Storage

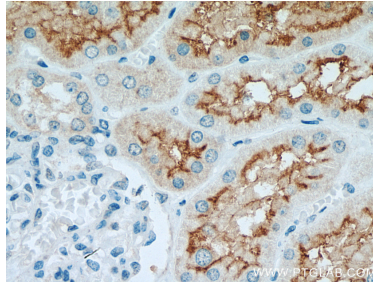
Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS Only

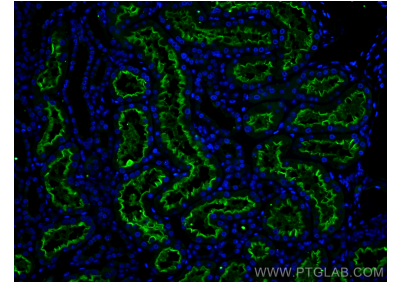
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 80063-1-RR (ACE2 antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80063-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 80063-1-RR (ACE2 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 80063-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using ACE2 antibody (80063-1-RR, Clone: 4H12) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 80063-1-PBS in a different storage buffer formulation.