For Research Use Only

ACE2 Polyclonal antibody Catalog Number: 28868-1-AP Featured Product

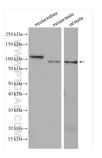


| | Size: 150ul, Concentration: 970 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG | GeneID (NCBI): 59272 UNIPROT ID: Q9BYF1 Full Name: | Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 IF-P 1:50-1:500 | |
|------------------------|--|--|---|--|
| | Source: Rabbit Isotype: | Q9BYF1 Full Name: | | |
| | lsotype: | | | |
| | IgG | Full Name: angiotensin I converting enzyme | yme | |
| | IgG Immunogen Catalog Number: AG30683 | (peptidyl-dipeptidase A) 2 Calculated MW: 805 aa, 92 kDa | | |
| | | | | |
| | | Observed MW: 92, 120 kDa | | |
| Applications | Tested Applications: | Positi | Positive Controls: | |
| | WB, IHC, IF-P, ELISA Species Specificity: | | WB : mouse kidney tissue, HeLa cells, mouse testis tissue, rat testis tissue | |
| | human, mouse, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | | IHC : human kidney tissue, human colon cancer tissue human small intestine tissue | |
| | | | n small intestine tissue mouse kidney tissue, | |
| 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). 28868-1-AP is specific for ACE2, and its antigen region is 30-356aa. | | | |
| Storage | Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliguoting is unnecessary for -20°C storage | | | |
| | | torage | | |

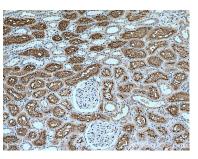
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

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

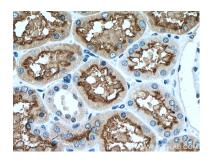
Selected Validation Data



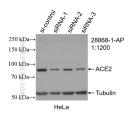
Various lysates were subjected to SDS PAGE followed by western blot with 28868-1-AP (ACE2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



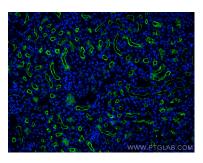
Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 28868-1-AP (ACE2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



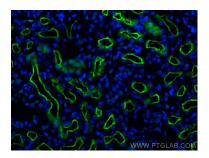
Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 28868-1-AP (ACE2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of ACE2 antibody (28868-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACE2 transfected HeLa cells.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using ACE2 antibody (28868-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse kidney tissue using ACE2 antibody (28868-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).