For Research Use Only

ACE2 Monoclonal antibody

Catalog Number:66699-1-lg Featured Product

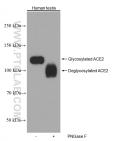
29 Publications



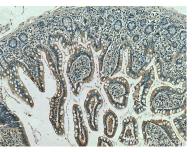
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 66699-1-lg BC048094 Protein A purification GenelD (NCBI): CloneNo.: Size: 1856 µg/ml 59272 2F12A4 UNIPROT ID: Recommended Dilutions: Source: Mouse Q9BYF1 WB 1:2000-1:6000 IHC 1:1000-1:4000 Isotype Full Name: IF 1:200-1:800 lgG1 angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 Immunogen Catalog Number: AG15554 Calculated MW: 805 aa, 92 kDa **Observed MW:** 120 kDa, 92 kDa **Applications Tested Applications:** Positive Controls: WB, IF-P, IHC, ELISA WB : human testis tissue, human skeletal muscle **Cited Applications:** tissue WB, IF, FC, IHC IHC : human small intestine tissue, human testis Species Specificity: tissue, human kidney tissue, human colon tissue Human, mouse IF : human kidney tissue, mouse testis tissue, mouse **Cited Species:** heart tissue human, mouse Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 ACE2 (Angiotensin-converting enzyme 2), also named as ACEH, is a zinc metalloprotease of the ACE family and a **Background Information** 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). Notable Publications Author Pubmed ID Journal Application Shunhua Long 36178477 Viral Immunol IF Shengjie Li 32991984 Ocul Surf IHC medRxiv WB, IF, FC Ni Huang 33140061 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. Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



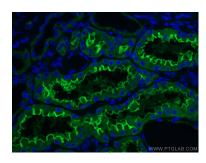
Untreated and PNGase F-treated lysates of human testis tissue were subjected to SDS PAGE followed by western blot with 66699-1-1g (ACE2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



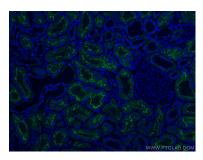
Immunohistochemical analysis of paraffinembedded human small intestine tissue slide using 66699-1-Ig (ACE2 antibody) at dilution of 1:2000 (under 10x lens)..



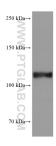
Immunohistochemical analysis of paraffinembedded human small intestine tissue slide using 66699-1-Ig (ACE2 antibody) at dilution of 1:2000 (under 40x lens)..



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using ACE2 antibody (66699-1-Ig, Clone: 2F12A4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human kidney tissue using ACE2 antibody (66699-1-Ig, Clone: 2F12A4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



human testis tissue were subjected to SDS PAGE followed by western blot with 66699-1-1g (ACE2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.