For Research Use Only

ACE2 Monoclonal antibody

Catalog Number:66699-1-lg Featured Product 37 Publications

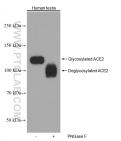




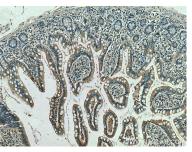
Basic Information	Catalog Number: 66699-1-lg Concentration:	GenBank Accession Number BC048094 GeneID (NCBI):	Purification Method: Protein G purification CloneNo.:	
	1856 ug/ml	59272	2F12A4	
	Source: Mouse Isotype: IgG1 Immunogen Catalog Number: AG15554	UNIPROT ID: 09BYF1	Recommended Dilutions: WB: 1:2000-1:6000	
		Full Name:	IHC: 1:1000-1:4000	
		angiotensin I converting enz (peptidyl-dipeptidase A) 2	yme IF-P: 1:200-1:800	
		Calculated MW: 805 aa, 92 kDa		
		Observed MW: 120 kDa, 92 kDa		
Applications	Tested Applications: WB, IHC, IF-P, ELISA		Positive Controls:	
	Cited Applications: tissue WB, IHC, IF, IP IHC : human small intes		WB : human testis tissue, human skeletal muscle tissue	
			IHC : human small intestine tissue, human colon	
			e, human colon cancer tissue, human kidney e, human testis tissue	
	Cited Species: human, mouse, monkey		IF-P : human kidney tissue, mouse testis tissue, mouse heart tissue	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
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).			
Notable Publications	Author	Pubmed ID Journal	Application	
	Shunhua Long	36178477 Viral Immur	nol IF	
	Shengjie Li	32991984 Ocul Surf	IHC	
	Ni Huang	33140061 medRxiv	WB,IF,FC	
Storage	Storage: Store at -20°C. Stable for one yea Storage Buffer: PBS with 0.02% sodium azide an Aliquoting is unnecessary for -20	d 50% glycerol, pH7.3		

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

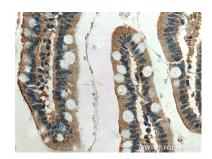
Selected Validation Data



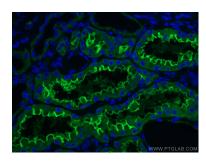
Untreated and PNGase F-treated lysates of human testis tissue were subjected to SDS PAGE followed by western blot with 66699-1-1g (ACE2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. PNGase F was obtained from Atagenix (cat.NO. ata808).



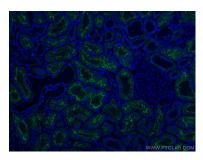
Immunohistochemical analysis of paraffinembedded human small intestine tissue slide using 66699-1-Ig (ACE2 antibody) at dilution of 1:2000 (under 10x lens)..



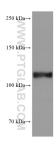
Immunohistochemical analysis of paraffinembedded human small intestine tissue slide using 66699-1-Ig (ACE2 antibody) at dilution of 1:2000 (under 40x lens)..



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.