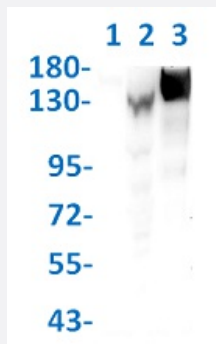


HuPro®

ACE2 (Y41G) (Human) Recombinant Protein

Catalog # P6712 Size 1 mg

Applications



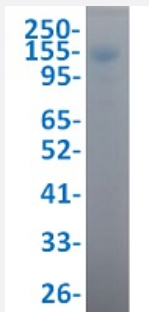
Western Blot (Recombinant protein)

Western Blot analysis of Lane 1: 293F negative control, Lane 2: 293F transfection IgG2-ACE2-41G-hFc Supernatant of cell cracking fluid and Lane 3: 293F transfection IgG2-ACE2-41G-hFc Cell supernatant.

Primary antibody: ACE2 polyclonal antibody (Cat # PAB31772) (1:1000)

Second antibody: Goat anti-Rabbit IgG (H+L)-HRP(1:20000)

Exposure time: 3 s



Specification

Product Description	Human ACE2 (Q9BYF1-1, 18 a.a. - 740 a.a.) Y41G mutant partial recombinant protein with C-terminus hFc tag expressed in 293F cells.
Host	Human
Theoretical MW (kDa)	111.7, 125-150 (R)
Form	Liquid
Preparation Method	Mammalian cell (293F) expression system

Purification	Ni-NTA affinity purification
Purity	> 95% by SDS-PAGE.
Quality Control Testing	2 ug loaded SDS-PAGE
Recommend Usage	ELISA SDS-PAGE Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4.
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	The protein has a calculated MW of 111.7 kDa. The protein migrates as 125-150 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Applications

- Western Blot (Recombinant protein)

Western Blot analysis of Lane 1: 293F negative control, Lane 2: 293F transfection IgG2-ACE2-41G-hFC Supernatant of cell cracking fluid and Lane 3: 293F transfection IgG2-ACE2-41G-hFC Cell supernatant.

Primary antibody: ACE2 polyclonal antibody (Cat # PAB31772) (1:1000)

Second antibody: Goat anti-Rabbit IgG (H+L)-HRP(1:20000)

Exposure time: 3 s

- Enzyme-linked Immunoabsorbent Assay

- SDS-PAGE

Gene Info — ACE2

Entrez GeneID	59272
Protein Accession#	Q9BYF1-1
Gene Name	ACE2
Gene Alias	ACEH, DKFZp434A014
Gene Description	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2
Omim ID	300335

Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene belongs to the angiotensin-converting enzyme family of dipeptidyl carboxypeptidases and has considerable homology to human angiotensin 1 converting enzyme. This secreted protein catalyzes the cleavage of angiotensin I into angiotensin 1-9, and angiotensin II into the vasodilator angiotensin 1-7. The organ- and cell-specific expression of this gene suggests that it may play a role in the regulation of cardiovascular and renal function, as well as fertility. In addition, the encoded protein is a functional receptor for the spike glycoprotein of the human coronaviruses SARS and HCoV-NL63. [provided by RefSeq]

Other Designations

ACE-related carboxypeptidase|OTTHUMP00000022963|angiotensin I converting enzyme 2|angiotensin converting enzyme-like protein

Pathway

- [Renin-angiotensin system](#)

Disease

- [Arrhythmias](#)
- [Atrial Fibrillation](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Coronary Disease](#)
- [Death](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Hypotension](#)

- [Intracranial Aneurysm](#)
- [Malaria](#)
- [Metabolic Syndrome X](#)
- [Sarcoidosis](#)