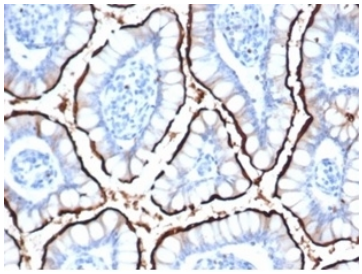
ACE2 Antibody Recombinant Rabbit MAb ACE2/6788R / Angiotensin-Converting Enzyme 2 Antibody [clone ACE2/6788R] (V8992)

Catalog No.	Formulation	Size
V8992-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V8992-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V8992SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

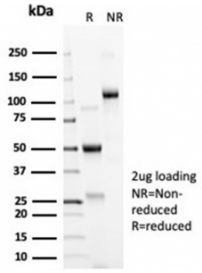
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	ACE2/6788R
Purity	Protein A/G affinity
UniProt	Q9BYF1
Localization	Cell membrane, Secreted
Applications	ELISA (For Coating : Order BSA-free Format) : Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This ACE2 antibody is available for research use only.



ACE2 Antibody Recombinant Rabbit MAb ACE2/6788R in human small intestine. Immunohistochemistry staining of FFPE human small intestine tissue using a recombinant rabbit monoclonal ACE2 antibody demonstrates membranous and cytoplasmic staining in intestinal epithelial cells lining the villi, consistent with the known epithelial expression pattern of Angiotensin-converting enzyme 2 (ACE2). The antibody ACE2 Antibody Recombinant Rabbit MAb ACE2/6788R was applied at 2 ug/ml for 30 min at room temperature following heat-induced epitope retrieval in pH 9 Tris-EDTA buffer. Brown chromogenic signal highlights ACE2-positive epithelial cells while surrounding stromal elements remain largely negative.



SDS-PAGE analysis of purified, BSA-free ACE2 Antibody Recombinant Rabbit MAb ACE2/6788R as confirmation of integrity and purity.

Description

Angiotensin-converting enzyme 2 (ACE2) is a membrane-associated metalloprotease encoded by the ACE2 gene that plays an important regulatory role in the renin-angiotensin signaling pathway. ACE2 Antibody Recombinant Rabbit MAb ACE2/6788R recognizes Angiotensin-converting enzyme 2 protein and is used in research studies examining ACE2 expression and biological function in mammalian cells and tissues. ACE2, also referred to as ACE2 receptor or Angiotensin-converting enzyme homolog, catalyzes the conversion of angiotensin II to angiotensin-(1-7), a peptide that counteracts the vasoconstrictive and pro-inflammatory signaling activities associated with angiotensin II.

ACE2 is a type I transmembrane protein containing a large extracellular catalytic domain and a short intracellular cytoplasmic tail. The protein is expressed in a variety of epithelial and endothelial tissues where it contributes to regulation of vascular tone, epithelial barrier function, and local peptide signaling networks. High levels of ACE2 expression are commonly reported in epithelial cells of the lung, small intestine, kidney tubules, and other organs involved in absorption and metabolic regulation. Because of its membrane localization and enzymatic activity, ACE2 plays an important role in maintaining physiological balance within the renin-angiotensin pathway.

ACE2 expression has also attracted significant research interest due to its role as a host receptor involved in viral entry mechanisms for several coronaviruses. As a cell surface receptor, ACE2 can interact with viral spike proteins, facilitating viral attachment and cellular entry. This biological function has made ACE2 an important subject of investigation in studies examining epithelial cell susceptibility, host-pathogen interactions, and receptor-mediated signaling pathways. Understanding ACE2 distribution across tissues and cell types therefore remains an important objective in many areas of biomedical research.

A recombinant rabbit monoclonal antibody, clone ACE2/6788R, recognizes ACE2 protein and supports detection of ACE2 expression in experimental systems. ACE2 Antibody Recombinant Rabbit MAb ACE2/6788R enables researchers to examine ACE2 distribution in cells and tissues and to investigate the biological role of Angiotensin-converting enzyme 2 in physiological and disease-associated pathways. Antibodies targeting ACE2 provide useful tools for studying receptor expression patterns, evaluating differences between cell populations, and exploring the broader functional significance of ACE2 in cardiovascular, epithelial, and infectious disease research.

Application Notes

Optimal dilution of the ACE2 Antibody Recombinant Rabbit MAb ACE2/6788R should be determined by the researcher.

Immunogen

A portion of amino acids 705-805 was used as the immunogen for the ACE2 antibody.

Storage

Aliquot the ACE2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

ACE2 receptor antibody, Angiotensin-converting enzyme homolog antibody, ACEH antibody, ACE2 protein antibody