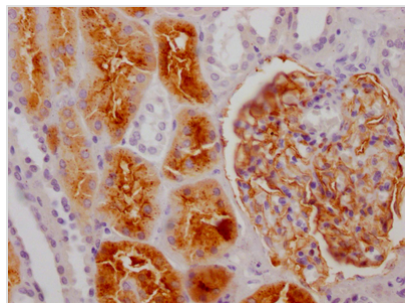




ENPEP Recombinant Monoclonal Antibody

Product Code	CSB-RA552900A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q07075
Immunogen	A synthesized peptide derived from human Aminopeptidase A / CD249
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Appears to have a role in the catabolic pathway of the renin-angiotensin system. Probably plays a role in regulating growth and differentiation of early B-lineage cells.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology; Stem cells
Gene Names	ENPEP
Clone No.	2G11

Image



IHC image of CSB-RA552900A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The process of developing the ENPEP recombinant monoclonal antibody requires several steps. Firstly, the ENPEP monoclonal antibody is harvested and its gene is sequenced. An ENPEP monoclonal antibody gene-carrying vector is constructed and then transfected into a host cell line, followed by culture. To create the ENPEP monoclonal antibody, a synthesized peptide



derived from human ENPEP is used as an immunogen. The resulting ENPEP recombinant monoclonal antibody is then purified using affinity chromatography and tested for specificity via ELISA and IHC assays. IT only detects human ENPEP protein.

The ENPEP is a membrane-bound zinc metallopeptidase that plays important roles in the regulation of blood pressure, metabolism of bioactive peptides, immune response, and extracellular matrix remodeling. ENPEP is involved in the regulation of blood pressure by controlling the renin-angiotensin-aldosterone system (RAAS). ENPEP has been shown to regulate the immune response by modulating the activity of T cells and macrophages. Dysregulation of ENPEP activity has been implicated in various diseases, including hypertension, heart failure, and cancer.