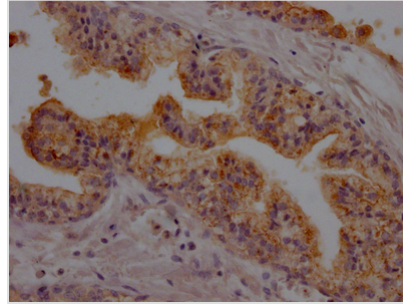




# DPP4 Antibody

<b>Product Code</b>	CSB-RA927191A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P27487
<b>Immunogen</b>	A synthesized peptide derived from human CD26
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
<b>Relevance</b>	<p>Cell surface glycoprotein receptor involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Acts as a positive regulator of T-cell coactivation, by binding at least ADA, CAV1, IGF2R, and PTPRC. Its binding to CAV1 and CARD11 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Its interaction with ADA also regulates lymphocyte-epithelial cell adhesion. In association with FAP is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM. May be involved in the promotion of lymphatic endothelial cells adhesion, migration and tube formation. When overexpressed, enhanced cell proliferation, a process inhibited by GPC3. Acts also as a serine exopeptidase with a dipeptidyl peptidase activity that regulates various physiological processes by cleaving peptides in the circulation, including many chemokines, mitogenic growth factors, neuropeptides and peptide hormones. Removes N-terminal dipeptides sequentially from polypeptides having unsubstituted N-termini provided that the penultimate residue is proline.</p>
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer; Cell biology; Immunology; Metabolism; Stem cells
<b>Gene Names</b>	DPP4
<b>Accession NO.</b>	6G7
<b>Image</b>	



IHC image of CSB-RA927191A0HU diluted at 1:100 and staining in paraffin-embedded human prostate cancer performed on a Leica Bond<sup>TM</sup> 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

DPP4 is a serine protease that releases a dipeptide from its substrates' N-termini. It regulates energy metabolism, inflammation, immunological modulation, cell adhesion, and apoptosis, among other physiological and pathological processes. DPP4 is a surface marker found on the surface of senescent cells. Altered expression and/or activity of DPP4 has been linked to a variety of pathogenic processes, including inflammation, viral entry, immune-mediated illnesses, and tumor biology, through altered expression and/or activity. DPP4 could play a role in metabolic illnesses like diabetes and obesity. It has been demonstrated that SARS-CoV-2 S protein can infect the body by acting on DPP4 of bronchiolar epithelial cells.

The DPP4 antibody genes were cloned from B cells that were derived from immunized animals with A synthesized peptide derived from human CD26 and then introduced into the plasma vectors, which were transfected into mammalian cell lines for up-scaling expression. The product was purified by A synthesized peptide derived from human CD26 to obtain the recombinant antibody against DPP4. This recombinant DPP4 antibody is reactive with the DPP4 protein from Human. It is recommended for use in the ELISA, IHC.