

Product datasheet

Recombinant Human CD26 protein ab158308

1 Image

Overview

<b>Product name</b>	Recombinant Human CD26 protein
<b>Protein length</b>	Full length protein

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human

<b>Sequence</b>	<p>MKTPWKVLLGLLGAAALVTITVPVLLNKGTTDDATAD  SRKTYTLTDYLK  NTYRLKLYSLRWISDHEYLYKQENNILVFNAEYGNSSVF  LENSTFDEFGH  SINDYSISPDGQFILLEYNVYKQWRHSYTASYDIYDLNKR  QLITEERIPN  NTQVWTWSPVGHKLAYVWNNDIYKIEPNLPSYRITWT  GKEDIYNGITD  WVYEEEVFSAYSALWWSPNGTFLAYAQFNDTEVPLIE  YSFYSDSLQYPK  TVRVPYPKAGAVNPTVKFFVNTDSLSSVTNATSIQITA  PASMLIGDHYL  CDVTWATQERISLQWLRRIQNYVMDICDYDESSGRW  NCLVARQHIEMST  TGWVGRFRPSEPHFTLDGNSFYKIIISNEEGYRHICYFQI  DKKDCTFITKG  TWEVIGIEALTSYLYISNEYKMPGGRNLYKIQLSDYT  KVTCLSCELN  PERCQYYSVSFSKEAKYYQLRCSGPGLPLYTLHSSVN  DKGLRVLEDNSAL  DKMLQNVQMPSKCLDFIILNETKFWYQMILPPHFDKSK  KYPLLLDVYAGP  CSQKADTVFRLNWATYLASTENIVASFDRGSGYQGD  KIMHAINRRLGT  FEVEDQIEAARQFSKMGFVDNKRIAWGWSYGGYVTS  MVLGSGSGVFKCG</p>
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IAVAPVSRWEYDYSVYTERYMGLPTPEDNLDHYRNSTV  
MSRAENFKQVEY  
LLIHGTADDNVHFQQSAQISKALVDVGVDFQAMWYTD  
EDHGIASSTAHHQHYTHMSHFQKCFSLP

**Amino acids** 1 to 766  
**Tags** GST tag N-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab158308** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** ELISA  
Western blot

**Form** Liquid

**Additional notes** Protein concentration is above or equal to 0.05 mg/ml.

## Preparation and Storage

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**Stability and Storage** Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.  
pH: 8.00  
Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

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**Function** 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.

**Tissue specificity** Expressed specifically in lymphatic vessels but not in blood vessels in the skin, small intestine, esophagus, ovary, breast and prostate glands. Not detected in lymphatic vessels in the lung, kidney, uterus, liver and stomach (at protein level). Expressed in the poorly differentiated crypt cells of the small intestine as well as in the mature villous cells. Expressed at very low levels in the colon.

**Sequence similarities** Belongs to the peptidase S9B family. DPPIV subfamily.

**Domain** The extracellular cysteine-rich region is necessary for association with collagen, dimer formation and optimal dipeptidyl peptidase activity.

**Post-translational** The soluble form (Dipeptidyl peptidase 4 soluble form also named SDPP) derives from the

## modifications

membrane form (Dipeptidyl peptidase 4 membrane form also named MDPP) by proteolytic processing.

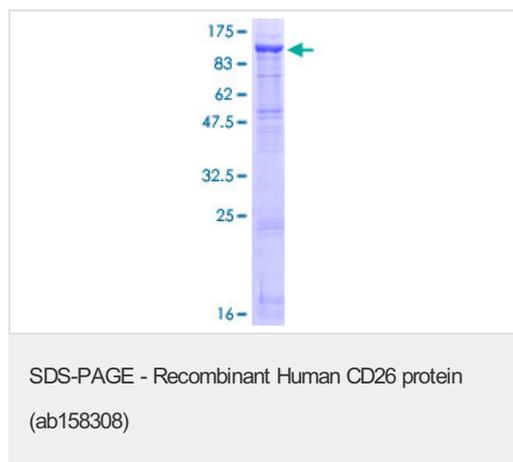
N- and O-Glycosylated.

Phosphorylated. Mannose 6-phosphate residues in the carbohydrate moiety are necessary for interaction with IGF2R in activated T-cells. Mannose 6-phosphorylation is induced during T-cell activation.

## Cellular localization

Cell membrane. Apical cell membrane. Cell projection > invadopodium membrane. Cell projection > lamellipodium membrane. Cell junction. Membrane raft. Translocated to the apical membrane through the concerted action of N- and O-Glycans and its association with lipid microdomains containing cholesterol and sphingolipids. Redistributed to membrane rafts in T-cell in a interleukin-12-dependent activation. Its interaction with CAV1 is necessary for its translocation to membrane rafts. Colocalized with PTPRC in membrane rafts. Colocalized with FAP in invadopodia and lamellipodia of migratory activated endothelial cells in collagenous matrix. Colocalized with FAP on endothelial cells of capillary-like microvessels but not large vessels within invasive breast ductal carcinoma. Colocalized with ADA at the cell junction in lymphocyte-epithelial cell adhesion. Colocalized with IGF2R in internalized cytoplasmic vesicles adjacent to the cell surface and Secreted. Detected in the serum and the seminal fluid.

## Images



ab158308 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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