

Dipeptidyl Peptidase IV (DPP4) Active Protein | DPP4 active protein

Active Dipeptidyl Peptidase IV (DPP4)

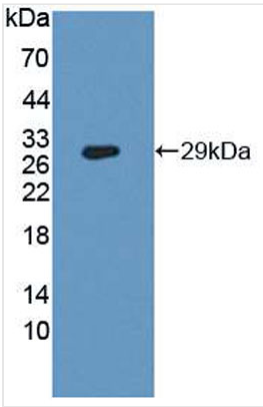
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA149244	E. coli	Homo sapiens (Human)	Activity Assay

PRODUCT SYNONYMS

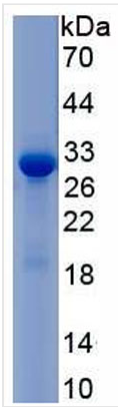
Dipeptidyl Peptidase IV (DPP4); Active Dipeptidyl Peptidase IV (DPP4); DPP4 active protein

PRODUCT SPECIFICATIONS

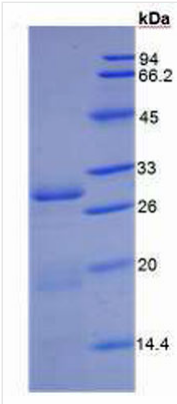
Host	E. coli
Reactivity	Homo sapiens (Human)
Purity/Purification	>90%
Form/Format	PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.
Concentration	Original Concentration: 500ug/mL (varies by lot)
Applicable Applications for DPP4 active protein	Activity Assay
Source	Prokaryotic expression
Residues	Ser484~Val728
Tags	N-terminal His-tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method).
Predicted isoelectric point	6.4
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



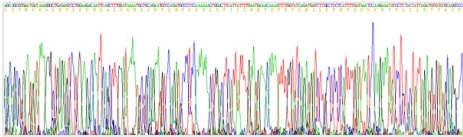
WB (Western Blot)
Sample: Recombinant DPP4, Human;Antibody: Rabbit Anti-Human DPP4 Ab



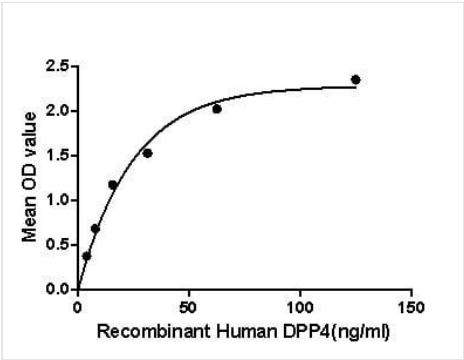
SDS-PAGE
Sample: Active recombinant CD26, Human



SDS_PAGE
Sample: Active recombinant DPP4, Human



Gene Sequencing
Gene Sequencing (extract)



Bioactivity
Cluster Of Differentiation 26 (CD26), also known as adenosine deaminase complexing protein 2 or cluster of differentiation 26 (CD26), is a protein in humans. CD26 is an antigenic enzyme expressed on the surface of most cell types and is associated with immune regulation, signal transduction and apoptosis. It is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Besides, Eosinophil Chemotactic Factor (ECF) has been identified as an interactor of CD26, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CD26 and recombinant human ECF. Briefly, CD26 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to ECF-coated microtiter wells and incubated for 2h at 37?. Wells were washed with PBST and incubated for 1h with anti- CD26 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of CD26 and ECF was shown in Figure 1, and this effect was in a dose dependent manner. Figure 1. The binding activity of CD26 with ECF(ng/ml).

SSVNDKG LRVLEDNSAL
DKMLQNVQMP SKKLDIFIILN ETKFWYQMIL PPHFDKSKKY PLLLDVYAGP
CSQKADTVFR LNWATYLAST ENIIVASFDG RSGGYQDKI MHAINRRLGT
FEVEDQIEAA RQFSKMGFVD NKRIAIWGS YGGVYTSMLV GSGSGVFKCG
IAVAPVSRWE YYDSVYTERY MGLPTPEDNL DHYRNSTVMS RAENFKQVEY
LLIHGTADDN VHFQSAQIS KALVDVGV

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for DPP4 active protein	Signal transduction; Enzyme & Kinase; Apoptosis; Tumor immunity; Endocrinology; Cardiovascular biology
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NCBI AND UNIPROT INFORMATION

NCBI GI #	18765694
NCBI GeneID	1803
NCBI Accession #	NP_001926.2
NCBI GenBank Nucleotide #	NM_001935.4
UniProt Accession #	P27487
Molecular Weight	Predicted Molecular Mass: 29.0kDa Accurate Molecular Mass: 29kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	dipeptidyl peptidase 4
NCBI Official Synonym Full Names	dipeptidyl peptidase 4
NCBI Official Symbol	DPP4
NCBI Official Synonym Symbols	CD26; ADABP; ADCP2; DPPIV; TP103
NCBI Protein Information	dipeptidyl peptidase 4
UniProt Protein Name	Dipeptidyl peptidase 4
UniProt Gene Name	DPP4
UniProt Synonym Gene Names	ADCP2; CD26; ADCP-2; DPP IV
UniProt Entry Name	DPP4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-homo-sapiens-human-active-protein/dipeptidyl-peptidase-iv-dpp4/149244>