

Recombinant Human DPP4 protein(Ser484~Val728), His-tagged

Cat. No. DPP4-7872H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DPP4 protein(Ser484~Val728), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Ser484~Val728
Tag	N-His
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Dipeptidyl peptidase-4 (DPP4), also known as adenosine deaminase complexing protein 2 or cluster of differentiation 26 (CD26), is a protein in humans. DPP4 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 DPP4, thus a binding ELISA assay was conducted to detect the interaction of recombinant human DPP4 and recombinant human ECF. Briefly, DPP4 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°C. Wells were washed with PBST and incubated for 1h with anti-DPP4

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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°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of DPP4 and ECF was shown in Figure, and this effect was in a dose dependent manner.

Molecular Mass	29.0kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

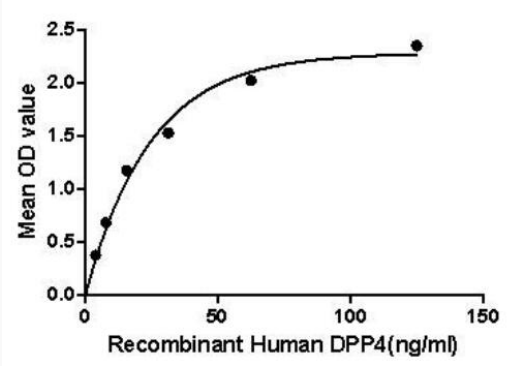
GENE INFORMATION

Gene Name	DPP4 dipeptidyl-peptidase 4 [Homo sapiens]
Official Symbol	DPP4
Synonyms	DPP4; dipeptidyl-peptidase 4; ADCP2, adenosine deaminase complexing protein 2 , CD26, dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2); dipeptidyl peptidase 4; DPPIV; ADCP-2; DPP IV; dipeptidylpeptidase 4; dipeptidyl peptidase IV; T-cell activation antigen CD26; adenosine deaminase complexing protein 2; dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2); CD26; ADABP; ADCP2; TP103

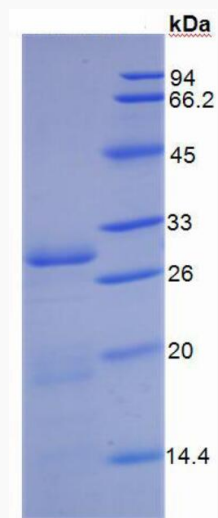
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Gene ID	1803																
mRNA Refseq	NM_001935																
Protein Refseq	NP_001926																
MIM	102720																
UniProt ID	P27487																
Activity	 <table border="1"> <caption>Approximate data points from the DPP4 activity graph</caption> <thead> <tr> <th>Recombinant Human DPP4 (ng/ml)</th> <th>Mean OD value</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.0</td></tr> <tr><td>10</td><td>0.4</td></tr> <tr><td>20</td><td>0.7</td></tr> <tr><td>30</td><td>1.1</td></tr> <tr><td>40</td><td>1.5</td></tr> <tr><td>60</td><td>2.0</td></tr> <tr><td>120</td><td>2.3</td></tr> </tbody> </table>	Recombinant Human DPP4 (ng/ml)	Mean OD value	0	0.0	10	0.4	20	0.7	30	1.1	40	1.5	60	2.0	120	2.3
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