

Datasheet for ABIN2180984

DPP4 Protein (AA 29-766) (Fc Tag)



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2 Images

1 Publication

Overview

Quantity:	50 µg
Target:	DPP4
Protein Characteristics:	AA 29-766
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPP4 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 29-766
Characteristics:	This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 112 kDa. The protein migrates as 90-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	DPP4
Alternative Name:	DPPIV (DPP4 Products)

Target Details

Background:	Dipeptidyl peptidase-IV (DPPIV) is also known as adenosine deaminase complexing protein 2, DPPIV or CD26 is 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. The substrates of DPPIV are proline (or alanine)-containing peptides and include growth factors, chemokines, neuropeptides, and vasoactive peptides. DPPIV plays a major role in glucose metabolism. It is responsible for the degradation of incretins such as GLP-1. DPPIV plays an important role in tumor biology, and is useful as a marker for various cancers, with its levels either on the cell surface or in the serum increased in some neoplasms and decreased in others.[4] DPPIV also binds the enzyme adenosine deaminase specifically and with high affinity. The significance of this interaction has yet to be established.
Molecular Weight:	112.3 kDa
NCBI Accession:	NP_001926
Pathways:	Peptide Hormone Metabolism , Regulation of Leukocyte Mediated Immunity

Application Details

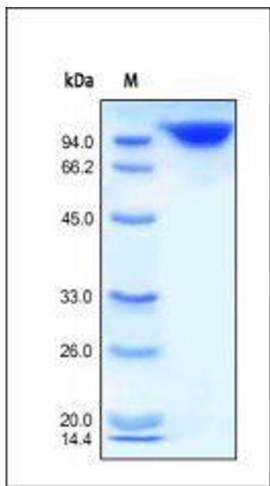
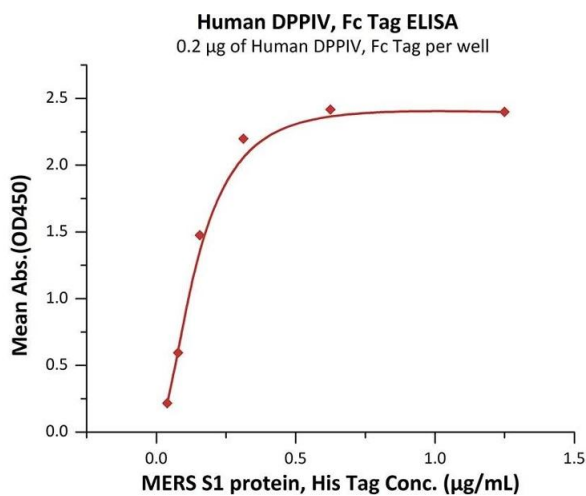
Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

Publications

Product cited in:	Smiley Evans, Tutaryebwa, Gilardi, Barry, Marzi, Eberhardt, Ssebide, Cranfield, Mugisha, Mugisha, Kellermann, Mazet, Johnson: "Suspected Exposure to Filoviruses Among People Contacting Wildlife in Southwestern Uganda." in: The Journal of infectious diseases , Vol. 218, Issue suppl_5, pp. S277-S286, (2018) (PubMed).
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ELISA

Image 1. Measured by its binding ability in a functional ELISA. Immobilized Human DPPIV, Fc Tag (ABIN2180984,ABIN2180983) at 2 µg/mL (100 µL/well) can bind MERS S1 protein, His Tag (ABIN6973154) with a linear range of 0.039-0.156 µg/mL (Routinely tested).

SDS-PAGE

Image 2.