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CD26/DPP4 Rabbit mAb

Catalog No.: A23297 Recombinant

Basic Information

Observed MW
120kDa

Calculated MW
88kDa

Category
Primary antibody

Applications
WB,IP,FC,ELISA

Cross-Reactivity
Human

CloneNo number
ARC59223

Background

The DPP4 gene encodes dipeptidyl peptidase 4, which is identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. It is an intrinsic type II transmembrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. Dipeptidyl peptidase 4 is highly involved in glucose and insulin metabolism, as well as in immune regulation. This protein was shown to be a functional receptor for Middle East respiratory syndrome coronavirus (MERS-CoV), and protein modeling suggests that it may play a similar role with SARS-CoV-2, the virus responsible for COVID-19.

Recommended Dilutions

WB	1:1000 - 1:5000
IP	0.5μg-4μg antibody for 400μg-600μg extracts of whole cells
FC	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
1803

Swiss Prot
P27487

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
CD26; ADABP; ADCP2; DPPIV; TP103; CD26/DPP4

Contact

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Product Information

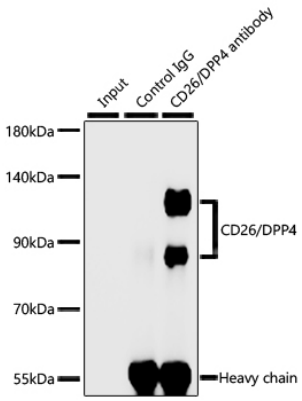
Source
Rabbit

Isotype
IgG

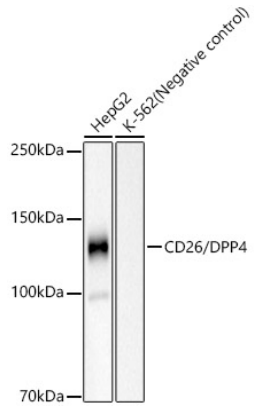
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

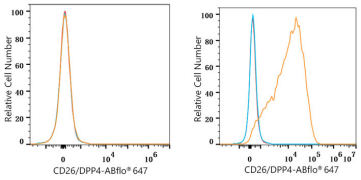
Validation Data



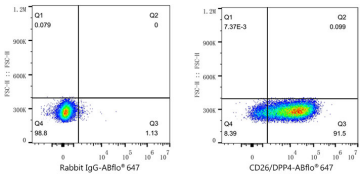
Immunoprecipitation of CD26/DPP4 from 300 µg extracts of Hep G2 cells treated by 1%Formaldehyde(10min) and Glycine (5min) was performed using 2 µg of CD26/DPP4 Rabbit mAb (A23297). Rabbit IgG isotype control (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X reducing Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using CD26/DPP4 Rabbit mAb (A23297) at a dilution of 1:1000.



Western blot analysis of various lysates, using CD26/DPP4 Rabbit mAb (A23297) at 1:1500 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



Flow cytometry: 1X10^6 K-562 cells (negative control,left) and NCI-H2452 cells (right) were surface-stained with CD26/DPP4 Rabbit mAb (A23297,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 NCI-H2452 cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or CD26/DPP4 Rabbit mAb (A23297,2 µg/mL,right).