DPRP2 (F-1): sc-271634

**BACKGROUND**

Dipeptidyl peptidases (DPPs) mediate regulatory activity of their substrates and have been linked to a variety of diseases including type 2 diabetes, obesity and cancer. DPPs have post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. DPPs can bind specific voltage-gated potassium channels and alter their expression and biophysical properties and may also influence T cells. DPP proteins include DPRP1, DPRP2, DPRP7, DPRP10, DPXP and CD26. DPRP2 (dipeptidyl-peptidase IV-related protein 2), also known as DPP9 (dipeptidyl-peptidase 9) or DPP9, is a member of the peptidase S9B family of proteins that exhibit prolylloigopeptidase activity. DPRP2 localizes to the cytoplasm and is ubiquitously expressed with predominant expression in heart, muscle and liver. DPRP2 may play an important role in the regulation of signaling by peptide hormones.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: DPP9 (human) mapping to 19p13.3.

**SOURCE**

DPRP2 (F-1) is a mouse monoclonal antibody raised against amino acids 285-338 mapping within an internal region of DPRP2 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DPRP2 (F-1) is available conjugated to agarose (sc-271634 AC), 500 µg/0.25 ml agarose for IP, or sc-271634 HRP, 200 µg/ml for WB, IHC(+) and ELISA; to either phycoerythrin (sc-271634 PE), fluorescein (sc-271634 FITC), Alexa Fluor® 488 (sc-271634 AF488), Alexa Fluor® 546 (sc-271634 AF546), Alexa Fluor® 594 (sc-271634 AF594) or Alexa Fluor® 647 (sc-271634 AF647), 200 µg/ml, for WB (RGB), IF, IHC(+) and FCM; and to either Alexa Fluor® 680 (sc-271634 AF680) or Alexa Fluor® 790 (sc-271634 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

DPRP2 (F-1) is recommended for detection of DPRP2 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for DPRP2 siRNA (h): sc-62236, DPRP2 shRNA Plasmid (h): sc-62236-SH and DPRP2 shRNA (h) Lentiviral Particles: sc-62236-V.

Molecular Weight of DPRP2: 98 kDa.

Positive Controls: DU 145 cell lysate: sc-2268, K-562 whole cell lysate: sc-2203 or HeLa whole cell lysate: sc-2200.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG FP-HRP: sc-516102 or m-IgG BP-HRP (Cruz Marker): sc-516214-CM (dilution range: 1:1000-1:10000), Cruz Marker® Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

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