

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DPP10 in Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) DPP4 and rhDPP6 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human DPP10 isoform 1 Leu56-Glu796 (Pro340Ala) Accession # NP_065919.2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human DPP10

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

DPP10 (dipeptidyl peptidase 10; also DPPY, DPRP3 and DPL2) is a 91-97 kDa member of the peptidase S9B family. It is a type II transmembrane glycoprotein principally expressed in neurons and T cells. Although it is a peptidase member, it has no catalytic activity. Instead, it assists in the membrane trafficking and functioning of Kv4 K⁺ channels. Human DPP10 is 796 amino acids (aa) in length. It contains a 34 aa cytoplasmic N-terminus and a 741 aa extracellular domain (ECD) (aa 56-796). Three potential isoforms exist, all involving aa substitutions limited to the first 20 amino acids. The ECD of human DPP10 shares 89% aa sequence identity with mouse DPP10 ECD.