Human PPP2R4 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5929

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PPP2R4 in direct ELISAs.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human PPP2R4 Glu14-Asn323 Accession # Q15257
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

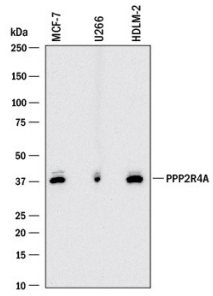
APPLICATIONS

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	1 µg/mL	See Below

DATA

Western Blot



Detection of Human PPP2R4 by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, U266 human myeloma cell line, and HDLM-2 human Hodgkin's lymphoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human PPP2R4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5929) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for PPP2R4 at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 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

PPP2R4, also known as serine/threonine protein phosphatase 2A regulatory subunit B', PR53 isoform, and PTPA, is a widely expressed member of the PTPA-type peptidyl prolyl isomerase family. Human PPP2R4 is 358 amino acids (aa) in length. Three splicing variants produce four isoforms for PPP2R4, and isoform 2 is the standard protein. Isoform 1, isoform 3 and isoform 4 have deletions corresponding to aa 73-107, 45-108, and 73-149 in isoform 2, respectively. Human PPP2R4 is 87% aa identical to mouse and rabbit PPP2R4. PPP2R4 reversibly stimulates the variable phosphotyrosyl phosphatase activity of the PP2A core heterodimer in the presence of ATP and Mg^{2+}. It has been shown that p53 downregulates the expression of PPP2R4.

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