

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PDZK1.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PDZK1 Met1-Met519 Accession # Q5T2W1
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.

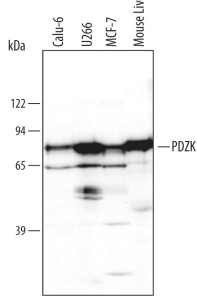
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below

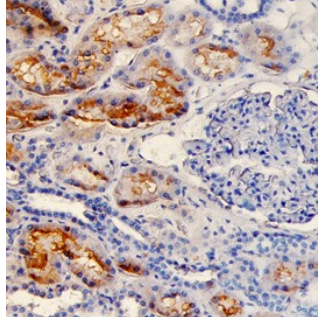
DATA

Western Blot



Detection of Human PDZK1 by Western Blot. Western blot shows lysates of Calu-6 human lung carcinoma cell line, U266 human myeloma cell line, MCF-7 human breast cancer cell line, and mouse liver tissue. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human/Mouse PDZK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4997) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for PDZK1 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



PDZK1 in Human Kidney. PDZK1 was detected in immersion fixed paraffin-embedded sections of human kidney using Sheep Anti-Human/Mouse PDZK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4997) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific labeling was localized to the brush border of proximal tubules. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

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. <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

PDZK1 (PDZ Domain-containing 1; also CFTR-associated protein of 70 kDa/CAP70) is a 65 - 70 kDa member of the NHER (Na/H Exchange Regulator) family of proteins. It is only expressed in epithelium, particularly that found in intestine, kidney and liver. PDZK1 serves as a scaffold protein that connects membrane proteins to cytoplasmic regulators. Human PDZK1 is 519 amino acids (aa) in length. It contains four PDZ domains (aa 9 - 90; 134 - 215; 243 - 323; and 378 - 458) plus two phosphorylation sites at Ser492 and Ser514. There are two potential truncated forms of human PDZK1, one that ends after Leu330, and a second that ends after Lys264. Human PDZK1 shares 78% aa identity with mouse PDZK1.