

DESCRIPTION

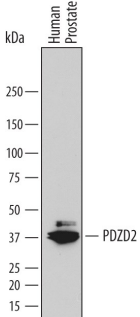
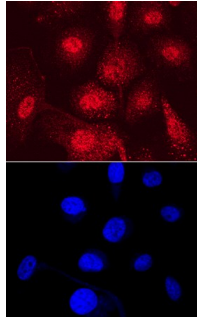
Species Reactivity	Human
Specificity	Detects human PDZD2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse PDZD2 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 787924
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PDZD2 Ser2489-Ser2839 Accession # O15018
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 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	2 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human PDZD2 by Western Blot. Western blot shows lysates of human prostate tissue. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human PDZD2 Monoclonal Antibody (Catalog # MAB7670) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for PDZD2 at approximately 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>PDZD2 in PC-3 Human Cell Line. PDZD2 was detected in immersion fixed PC-3 human prostate cancer cell line using Mouse Anti-Human PDZD2 Monoclonal Antibody (Catalog # MAB7670) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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

PDZD2 (PSD95, Discs-large and ZO-1 domain-containing protein 2), also called AIPC (activated in prostate cancer) and PDZK3, is a multi-PDZ-domain protein that is ubiquitously expressed. The 2839 amino acid (aa) human PDZD2 is found in the endoplasmic reticulum. Caspase cleavage produces the 347 aa, 37 kDa secreted mature form (aa 2493-2839). A 2640 aa isoform is lacking 199 aa N-terminal to the mature sequence. The processed, mature form contains two PDZ domains which interact with the C-terminus of partner proteins, promotes maturation of pancreatic β cells, and is highly expressed in human prostate tumors. Human PDZD2 shares 72% aa sequence identity with mouse or rat PDZD2.