

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PAUF/ZG16B in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 817310
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PAUF/ZG16B Gly53-Arg208 Accession # Q96DA0
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.

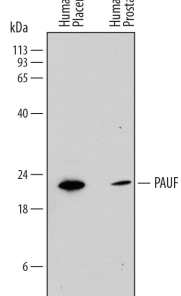
APPLICATIONS

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	8-25 µg/mL	See Below

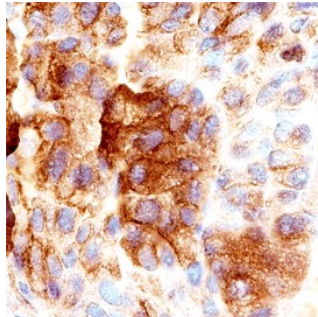
DATA

Western Blot



Detection of Human PAUF/ZG16B by Western Blot. Western blot shows lysates of human placenta tissue and human prostate tissue. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human PAUF/ZG16B Monoclonal Antibody (Catalog # MAB7777) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for PAUF/ZG16B at approximately 22 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



PAUF/ZG16B in Human Pancreas Cancer Tissue. PAUF/ZG16B was detected in immersion fixed paraffin-embedded sections of human pancreas cancer tissue using Mouse Anti-Human PAUF/ZG16B Monoclonal Antibody (Catalog # MAB7777) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm and plasma membranes of cancer cells. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

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

PAUF (pancreatic adenocarcinoma upregulated factor), gene name ZG16B (zymogen granule protein 16B), is a 156 amino acid, approximately 20-25 kDa secreted protein that is a member of the jacalin-binding lectin family. PAUF expression is thought to be restricted to primates, but the related ZG16P, which shares approximately 25% amino acid sequence identity, is more widely expressed. Human PAUF is overexpressed in pancreatic adenocarcinoma, binds Toll-like receptors TLR2 and TLR4, and inhibits CXCR4-dependent, TLR2-mediated NF-κB activation. It facilitates tumor growth, adhesiveness, and production of pro-tumorigenic cytokines.