

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
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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 b cells, and is highly expressed in human prostate tumors. Human PDZD2 shares 72% aa sequence identity with mouse or rat PDZD2.

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