

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                                                 |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human PDZD2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse PDZD2 is observed. |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2A</sub> Clone # 787924                                                                     |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                                            |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human PDZD2<br>Ser2489-Ser2839<br>Accession # O15018                              |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                       |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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.

## PRODUCT SPECIFIC NOTICES

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