

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Peptidase Inhibitor 16/PI16 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Peptidase Inhibitor 16/PI16 Leu28-Leu437 Accession # AAH35634
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.

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

PI16 (Peptidase Inhibitor 16; also PSP94-binding protein) is a 70-75 kDa member of the CRISP family of proteins. It is expressed by prostatic fibroblasts and cardiomyocytes and is known to bind PSP94. The human PI16 precursor is 463 amino acids (aa) in length. It contains a 27 aa signal peptide plus a 436 aa mature region. The mature region has been described as being either a type I transmembrane (TM) glycoprotein with a TM segment between aa 443-462, or a GPI-linked glycoprotein with C-terminal cleavage between Lys437-Asn438. Three potential variants exist. One shows a deletion of aa 231-423, a second shows a 9 aa substitution for the C-terminal 64 aa and a third shows a 43 aa insertion after Cys197. Over aa 28-437, human PI16 is 67% aa identical to mouse PI16.

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