

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Peptidase Inhibitor 16/PI16 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 10% cross-reactivity with recombinant mouse PI16 is observed.
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
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	0.1 µg/mL	Recombinant Human Peptidase Inhibitor 16/PI16

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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

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.