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[Marker Primary Antibody]

Rabbit Anti-Pregnancy zone protein/HRP Conjugated antibody

Catalog Number: SL11176R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Pregnancy zone protein/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human Pregnancy zone protein
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Dog,Cow,Horse,Rabbit)
Background:	background: Pregnancy Zone protein is a 1,482 amino acid secreted protein that belongs to the protease inhibitor I39 family and exists as multiple alternatively spliced isoforms. Expressed predominately in plasma and in late-pregnancy sera, Pregnancy Zone protein functions as a disulfide-linked homotetramer that is able to trap and inhibit proteinases, thus playing a role in the regulation of protein splitting and small peptide formation. The gene encoding Pregnancy Zone protein maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders. **Function:** Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region'

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	which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase. **Subunit:** Homotetramer, which consists of two pairs of disulfide-linked chains. **Subcellular Location:** Secreted. **Similarity:** Belongs to the protease inhibitor I39 (alpha-2-macroglobulin) family. **Database links:** **Entrez Gene:** 5858 Human Omim: 176420 Human **SwissProt:** P20742 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.