



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Human PAPP-A

Catalog No.
129-10517

Target Species
Human

Isotype
IgG2b

Preparation

Purification: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Immunogen: Purified human PAPP-A/proMBP complex

Antiserum Preparation: Spleen cells from immunised BALB/c mice were fused with cells of the Sp2/0 myeloma cell line.

Specificity

129-10517 recognises human pregnancy-associated plasma protein A, or PAPP-A, a metalloprotease specific for insulin-like growth factor binding protein-4 and -5 (IGFBP4 and IGFBP5). PAPP-A was initially identified as a high-molecular mass component in human pregnancy serum. In pregnancy serum PAPP-A exists in a disulfide bound heterotetrameric complex consisting of two 200kDa PAPP-A subunits and two 50-90kDa subunits of the proform of eosinophil major basic protein (proMBP). The concentration of PAPP-A in serum increases with gestational age, however, in Down's syndrome pregnancies PAPP-A concentration is markedly reduced in the first trimester. As such, PAPP-A is widely used as an early marker for Down's syndrome.

PAPP-A has also been shown to exist in a homodimeric, 400kDa form in unstable atherosclerotic plaques. Increased circulating concentrations of this dimeric PAPP-A are associated with acute coronary syndromes.

129-10517 recognises both the heterotetrameric complex (PAPP-A associated with proMBP) and the homodimeric complex of PAPP-A.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.02% Sodium Azide (NaN_3)

Approx. Protein Concentrations: IgG concentration 1.0mg/ml

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 18 months from date of dispatch.

Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry			•	
ELISA	•			
Immunoprecipitation	•			
Western Blotting	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined.

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