

Datasheet: MCA4648

BATCH NUMBER 167593

Description:	MOUSE ANTI HUMAN PAPP-A
Specificity:	PAPP-A
Other names:	PREGNANCY-ASSOCIATED PLASMA PROTEIN A
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	10E1
Isotype:	IgG2b
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)

Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Purified human PAPP-A/proMBP complex.
External Database Links	<p>UniProt: Q13219 Related reagents</p> <p>Entrez Gene: 5069 PAPPA Related reagents</p>
RRID	AB_1510371
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<p>Mouse anti Human PAPP-A antibody, clone 10E1 recognizes 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 ~200 kDa PAPP-A subunits and two ~50-90 kDa 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.</p> <p>PAPP-A has also been shown to exist in a homodimeric, 400 kDa form in unstable atherosclerotic plaques. Increased circulating concentrations of this dimeric PAPP-A are associated with acute coronary syndromes.</p> <p>Mouse anti Human PAPP-A antibody, clone 10E1 recognizes both the heterotetrameric complex (PAPP-A associated with proMBP) and the homodimeric complex of PAPP-A.</p>
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA4648 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M389532:210806'

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