

## Datasheet: MCA4648

<b>Description:</b>	MOUSE ANTI HUMAN PAPP-A
<b>Specificity:</b>	PAPP-A
<b>Other names:</b>	PREGNANCY-ASSOCIATED PLASMA PROTEIN A
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	10E1
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml

<b>Immunogen</b>	Purified human PAPP-A/proMBP complex.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q13219</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5069</a>    PAPPA    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_1510371
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the Sp2/0 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human PAPP-A antibody, clone 10E1</b> 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>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

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

## 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](https://bio-rad-antibodies.com/datasheets)  
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