

## Datasheet: MCA2091

<b>Description:</b>	MOUSE ANTI HUMAN PLACENTAL ALKALINE PHOSPHATASE
<b>Specificity:</b>	PLACENTAL ALKALINE PHOSPHATASE
<b>Other names:</b>	PLAP
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	H17E2
<b>Isotype:</b>	IgG1
<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	▪			10ug/ml
Immunohistology - Frozen (1)	▪			
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. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

<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>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Placental membrane.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05187</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">250</a>    ALPP    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	PLAP
<b>RRID</b>	AB_2226283
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human placental alkaline phosphatase antibody, clone H17E2</b> recognizes human placental alkaline phosphatase, also known as Alkaline phosphatase Regan isozyme, Alkaline phosphatase, placental type or Placental alkaline phosphatase 1. Placental alkaline phosphatase is a 535 amino acid ~67 kDa GPI-anchored transmembrane glycoprotein bearing a 22 amino acid signal peptide and a 29 amino acid pro-peptide region, cleaved to produce the mature form. Placental alkaline phosphatase is expressed in trophoblast cells of normal human placenta (<a href="#">Travers <i>et al.</i> 1984</a>), in seminomas (<a href="#">Lange <i>et al.</i> 1982</a>) and in ovarian carcinoma (<a href="#">Tholander <i>et al.</i> 1990</a>).</p> <p>Mouse anti Human placental alkaline phosphatase antibody, clone H17E2 has been widely used in immunolocalization studies of germ cell tumors and may also be used for the measurement of soluble placental alkaline phosphatase by ELISA.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>Histology Positive Control Tissue</b>	Placenta, seminoma
<b>References</b>	<ol style="list-style-type: none"> <li>1. Travers, P. &amp; Bodmer, W. (1984) Preparation and characterization of monoclonal antibodies against placental alkaline phosphatase and other human trophoblast-associated determinants. <a href="#">Int J Cancer. 33 (5): 633-41.</a></li> <li>2. Tucker, D.F. <i>et al.</i> (1985) Serum marker potential of placental alkaline phosphatase-like activity in testicular germ cell tumours evaluated by H17E2 monoclonal antibody assay. <a href="#">Br J Cancer. 51 (5): 631-9.</a></li> <li>3. Epenetos, A.A. <i>et al.</i> (1984) An immunohistological study of testicular germ cell</li> </ol>

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  14. Fitzgerald, W. *et al.* (2018) Extracellular vesicles generated by placental tissues *ex vivo*: A transport system for immune mediators and growth factors. [Am J Reprod Immunol. 80 \(1\): e12860.](#)

<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>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</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 (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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'M383643:210513'

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