

Datasheet: MCA2091 BATCH NUMBER 160823

Description:	MOUSE ANTI HUMAN PLACENTAL ALKALINE PHOSPHATASE		
Specificity: PLACENTAL ALKALINE PHOSPHATASE			
Other names:	PLAP		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	H17E2		
Isotype:	lgG1		
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry	-			10ug/ml		
	Immunohistology - Frozen (1)	-			J. J		
	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.						
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	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Placental membrane.
External Database Links	UniProt: <u>P05187</u> <u>Related reagents</u> Entrez Gene: <u>250</u> ALPP <u>Related reagents</u>
Synonyms	PLAP
RRID	AB_2226283
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	 Mouse anti Human placental alkaline phosphatase antibody, clone H17E2 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 (Travers <i>et al.</i> 1984), in seminomas (Lange <i>et al.</i> 1982)and in ovarian carcinoma (Tholander <i>et al.</i> 1990). 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.
Flow Cytometry	
	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
Histology Positive Control Tissue	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul. Placenta, seminoma

<u>J Cancer. 51 (5): 631-9.</u>

3. Epenetos, A.A. et al. (1984) An immunohistological study of testicular germ cell
tumours using two different monoclonal antibodies against placental alkaline phosphatase.
<u>Br J Cancer. 49 (1): 11-5.</u>

4. Kalofonos, H.P. *et al.* (1990) Immunolocalisation of testicular tumours using radiolabelled monoclonal antibody to placental alkaline phosphatase. J Nucl Med Allied Sci. 34 (4): 294-8.

5. Long, M.A. & Rossi, F.M. (2009) Silencing inhibits Cre-mediated recombination of the Z/AP and Z/EG reporters in adult cells. <u>PLoS One. 4:e5435.</u>

6. Carter, C.C. *et al.* (2010) HIV-1 infects multipotent progenitor cells causing cell death and establishing latent cellular reservoirs. <u>Nat Med. 16: 446-51.</u>

7. Wonderlich, E.R. *et al.* (2011) ADP Ribosylation Factor 1 Activity Is Required To Recruit AP-1 to the Major Histocompatibility Complex Class I (MHC-I) Cytoplasmic Tail and Disrupt MHC-I Trafficking in HIV-1-Infected Primary T Cells. J Virol. 85: 12216-26.

8. Semenov, O.V. *et al.* (2010) Multipotent mesenchymal stem cells from human placenta: critical parameters for isolation and maintenance of stemness after isolation. <u>Am J Obstet</u> <u>Gynecol. 202:193.e1-193.e13.</u>

9. Göhner, C. *et al.* (2015) A New Enzyme-linked Sorbent Assay (ELSA) to Quantify Syncytiotrophoblast Extracellular Vesicles in Biological Fluids. <u>Am J Reprod Immunol. 73</u> (<u>6): 582-8.</u>

10. Fisken, J. *et al.* (1989) Serum placental-like alkaline phosphatase (PLAP): a novel combined enzyme linked immunoassay for monitoring ovarian cancer. <u>J Clin Pathol. 42</u> (1): 40-5.

11. Orozco AF *et al.* (2009) Placental release of distinct DNA-associated micro-particles into maternal circulation: reflective of gestation time and preeclampsia. <u>Placenta. 30 (10)</u>: 891-7.

12. Dankers, P.Y.W. *et al.* (2015) Convenient formulation and application of a supramolecular ureido-pyrimidinone modified poly(ethylene glycol) carrier for intrarenal growth factor delivery <u>European Polymer Journal. 72: 484-93.</u>

13. Dragovic, R.A. *et al.* (2013) Multicolor flow cytometry and nanoparticle tracking analysis of extracellular vesicles in the plasma of normal pregnant and pre-eclamptic women. <u>Biol Reprod. 89 (6): 151.</u>

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

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.				
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/MCA2091				

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Regulato	ry	For resear	ch purpos				
Relate	d Product	s					
Recomn	nended Sec	ondary A	ntibodie	S			
Rabbit A	nti Mouse IgG	(STAR12.	.)	RPE			
Goat Ant	i Mouse IgG I	gA IgM (ST	AR87)	HRF	2		
Goat Ant	i Mouse IgG (STAR76)	ļ	RPE			
Rabbit A	nti Mouse IgG	(STAR13.	.)	HRF	2		
Goat Ant	i Mouse IgG (STAR70)	ļ	FITC	2		
Goat Ant	i Mouse IgG (H/L) (STAF	R117)	Alk.	Phos., DyLight®488, I	DyLight®550	3
			I	DyLi	ight®650, DyLight®68	0, DyLight®8	<u>300</u> ,
			ļ	FITC	<u>, HRP</u>		
Rabbit A	nti Mouse IgG	(STAR9)) <u>I</u>	FITC	2		
Goat Ant	i Mouse IgG (STAR77)	Ī	HRF	2		
Goat Ant	i Mouse IgG (Fc) (STAR	120)	FITC	<u>), HRP</u>		
Recomn	nended Neg	ative Cor	trols				
MOUSE Io	G1 NEGATIVE		(MCA928)			
orth & South	Tel: +1 800 265 73 Fax: +1 919 878 3		Worldwide		Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
ienca	Email: antibody_s		d.com		Fax: +44 (0)1865 852 739 Email: antibody sales uk@bio	-rad.com	Fax: +49 (0) 89 8090 95 50 Email: antibody sales de@bio-rad.co

'M366172:200529'

Printed on 19 Jan 2024

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