e at -20C	ALPP (3E5C7) Mouse mAb	C T	Cell Signaling					
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com					
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 70	<b>Source/Isotype:</b> Mouse IgG2b	UniProt ID: #P05187	Entrez-Gene Id: 250			
Product Usage Information	9	Application Western Blotting			Dilution 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.							
Specificity/Sensitivity		ALPP (3E5C7) Mouse mAb recognizes endogenous levels of total ALPP protein. This antibody may cross- react with a protein of unknown origin at ~140 kDa in some cell lines.							
Source / Purifi	Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein fragment specific to human ALPP protein.						
Background		Mammalian alkaline phosphatases (ALPs) are highly conserved zinc-containing allosteric enzymes that hydrolyze and transphosphorylate a wide range of compounds (1). There are four known human alkaline phosphatase isozymes: ALPL (tissue-nonspecific; bone/liver/kidney), ALPP (placental), ALPPL2 (germ cell), and ALPI (intestinal) (2). Placental alkaline phosphatase (ALPP) is bound to the plasma membrane via a glycosyl-phosphatidylinositol (GPI) anchor (3). It is expressed primarily in the placenta (4) and may be involved in transplacental IgG transport (5). ALPP has been found to be overexpressed on the surface of several different types of solid tumor cells (6), and elevated serum concentrations of ALPP and ALPP-like enzymes has been found to be associated with ovarian, cervical, and testicular cancer (7).							
Background R	eferences	1. Hoylaerts, M.F. et a 2. Millán, J.L. (2006) <i>P</i> 3. Low, M.G. and Saltie 4. Beckman, G. et al. / 5. Fishman, L. et al. (1 6. Ind, T. et al. (1997) 7. Koshida, K. et al. (19	<i>urinergic Signal</i> 2, 3 el, A.R. (1988) <i>Scien Hum Hered</i> 45, 1-5. 976) <i>Cancer Res</i> 36 Br J Obstet Gynaeco	35-41. <i>ce</i> 239, 268-75. , 2268-73. b/ 104, 1024-9.					
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.							
Applications K	Applications Key		W: Western Blotting						
Cross-Reactivity Key		H: Human							
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