e at -20C	CRABP1 (D7F9T) Rabbit mAb		Cell Signaling TECHNOLOGY®
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For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: UniPro

Applications: Reactiv	ity: Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:	
	Endogenous	15	Rabbit IgG	#P29762	1381	
Product Usage	Application				Dilution	
Information	Western Blotting				1:1000	
	Immunofluorescence (F	-rozen)			1:800	
	Immunofluorescence (I	mmunocytochen	nistry)		1:800	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				cerol and less than	
Specificity / Sensitivity	CRABP1 (D7F9T) Rabbit mAb recognizes endogenous levels of total CRABP1 protein. This antibody does not cross-react with other intracellular lipid-binding protein family members, CRBP1 and CRBP2.					
Species predicted to react based on 100% sequence homology:	Rat, Bovine					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu102 of human CRABP1 protein.					
Background	Vitamin A gives rise to multiple species of biologically active lipophilic metabolites, known as retinoids, which play a critical role in numerous physiological processes such as vision and embryonic development. Intracellularly, all- <i>trans</i> retinoic acid is bound with high affinity to either cellular retinoic acid-binding protein 1 (CRABP1) or cellular retinoic acid-binding protein 2 (CRABP2), which aids in its solubilization within the aqueous cytosolic compartment. Belonging to the intracellular lipid-binding protein family (iLBP), the human CRABPs are 74% identical at the protein level and each CRABP is highly conserved across multiple species. Research studies have shown that knockout of <i>Crabp1</i> is not lethal but results in defects in limb development (1), suggesting that CRABP1 plays a role in establishing retinoic acid concentration gradients in the developing limb bud. Although it remains unclear how CRABP1 may regulate the formation of retinoic acid gradients <i>in vivo</i> , research studies have suggested that CRABP1 can enhance the activities of intracellular retinoic acid-metabolizing enzymes, thus blunting cellular responses to retinoic acid (2-4).					
Background References	 Lampron, C. et al. (1995) Development 121, 539-48. Fujii, H. et al. (1997) EMBO J 16, 4163-73. Boylan, J.F. and Gudas, L.J. (1992) J Biol Chem 267, 21486-91. Boylan, J.F. and Gudas, L.J. (1991) J Cell Biol 112, 965-79. 					
Species Reactivity	Species reactivity is dete	rmined by testing	y in at least one approve	ed application (e.g., w	vestern blot).	
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key	WB: Western Blotting IF IF-IC: Immunofluorescer	-F: Immunofluor nce (Immunocyto	escence (Frozen) ochemistry)			
Cross-Reactivity Key	 S-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected)m: D. melanogaster Hr: horse	

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Limited Uses

CRABP1 (D7F9T) Rabbit mAb (#13163) Datasheet Without Images Cell Signaling Technology

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