

13206

CRABP1 (D5W9A) Rabbit mAb



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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 15	Source/Isotype: Rabbit IgG	UniProt ID: #P29762	Entrez-Gene Id 1381
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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.				
Specificity/Sensitivity		CRABP1 (D5W9A) 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, Chicken, Bovine				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus 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		1. Lampron, C. et al. (1995) <i>Development</i> 121, 539-48. 2. Fujii, H. et al. (1997) <i>EMBO J</i> 16, 4163-73. 3. Boylan, J.F. and Gudas, L.J. (1992) <i>J Biol Chem</i> 267, 21486-91. 4. Boylan, J.F. and Gudas, L.J. (1991) <i>J Cell Biol</i> 112, 965-79.				
Species Reactiv	ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 Key

W: Western Blotting

Cross-Reactivity Key

H: Human M: Mouse

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