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Product Information



Cellular Retinol Binding Protein 7 Blocking Peptide

Item No. 10010251

Retinol is an essential micronutrient that plays a critical role in various physiological functions including cell growth and differentiation. Due to the instability and low solubility of retinol in the aqueous medium, it requires specific binding proteins in body fluids and within the cell for transport.¹ Cytoplasmic carriers of the retinol molecule, the cellular retinol-binding proteins (cRBPs), are monomeric proteins of about 15 kDa. cRBP7 is the most recently identified cellular retinol carrier found to be expressed mainly in the kidney, heart, and transverse colon in humans.² In addition to the intracellular transport role of cRBP7, further study of this protein is warranted.

Cayman's cRBP7 polyclonal antibody detects both the mature protein at about 15 kDa and the precursor at about 26 kDa by western blot in tissues/cells such as heart, HEK 293 cells, Cos-7 cells, and RAW 264.7 cells. The antibody can also be used for immunocytochemistry.

Laboratory Procedures

This vial contains 200 µg peptide in 200 µl TBS, pH 7.4, containing 0.1% BSA and 0.02% sodium azide. The cRBP7 blocking peptide (amino acids 125-134) can be used in conjunction with Cayman's Cellular Retinol Binding Protein 7 Polyclonal Antibody (Item No. 10010250) to block protein-antibody complex formation during immunochemical analysis.

Store this peptide solution at -20°C. It will be stable for at least two years. To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the Cellular Retinol Binding Protein 7 Polyclonal Antibody (Item No. 10010250) and blocking peptide together in a 1:1 (v/v) ratio in a microfuge tube. For example, mix 40 µl of antibody and 40 µl of peptide.*
2. Incubate for one hour at room temperature with occasional mixing.
3. Dilute the mixture to the final working antibody concentration and apply to the slide or membrane as usual.

*This is a recommended mixture. The minimum amount of peptide needed for complete blocking has not been precisely determined and may vary depending on the sample being analyzed. The amount of peptide required may need to be increased if sufficient blocking does not occur.

References

1. Noy, N. Retinoid-binding proteins: Mediators of retinoid action. *Biochem J.* **348**, 481-495 (2000).
2. Folli, C., Calderone, V., Ramazzina, I., *et al.* Ligand binding and structural analysis of a human putative cellular retinol-binding protein. *J. Biol. Chem.* **277**(44), 41970-41977 (2002).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10010251

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

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