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Product Information



GPR17 (C-Term) Blocking Peptide

Item No. 10345

GPR17 is a G protein-coupled receptor that has been identified as a dualistic receptor recognizing signals from two unrelated chemical families: nucleotides and cysteinyl leukotrienes (CysLTs).¹ The deorphanization of GPR17 supports the suggested crosstalk between nucleotides and CysLTs during inflammation and injury. mRNA transcripts encoding this transmembrane receptor are most strongly expressed in the brain, kidney, and heart. Upon ischemic injury, GPR17 is upregulated in these tissues and its inhibition has been shown to decrease ischemic damage. This finding suggests GPR17 as a pharmacological target of ischemic injury.¹ Cayman's peptide affinity-purified polyclonal antibody recognizes the C-terminal region of human GPR17. This protein exists in two isoforms, differing by 28 amino acids at the receptor N-terminus. The longer form of the protein consists of 367 amino acids with a calculated molecular weight of 41 kDa. The human and rat proteins share 89% amino acid identity.¹ Post-translational modifications may explain the observed SDS-PAGE gel-migration to 57 kDa on immunoblot.

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 GPR17 (C-Term) blocking peptide (Human GPR17 amino acids 351-367) can be used in conjunction with Cayman's GPR17 (C-Term) Polyclonal Antibody (Item No. 10136) to block protein-antibody complex formation during immunochemical analysis of GPR17.

Store this peptide solution at -20°C. It will be stable for at least two years. We recommend an antibody and peptide incubation of 30 minutes at 25°C prior to application to the slide or membrane to preadsorb the IgG from the target protein. To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the GPR17 (C-Term) Polyclonal Antibody (Item No. 10136) and blocking peptide together in a 1:1 (v/v) ratio in a microfuge tube. For example, mix 20 µl of antibody and 20 µl of peptide.*
2. Incubate for one hour at room temperature with occasional mixing prior to further dilution and application of the mixture to the immunoblot.
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.

Reference

1. Ciana, P., Fumagalli, M., Trincavelli, M.L., *et al.* The orphan receptor GPR17 identified as a new dual uracil nucleotides/cysteinyl-leukotrienes receptor. *EMBO J.* **25**, 4615-4627 (2006).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10345

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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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