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Product Information



PTEN Induced Putative Kinase 1 (PINK1) Blocking Peptide

Item No. 10006284

Phosphatase and tensin homolog (PTEN) dephosphorylates lipids such as phosphatidylinositol 3,4,5-triphosphate (PIP3) and its defects contribute to a variety of human cancers. PTEN induced putative kinase 1 (PINK1) was first identified when studying the tumor-suppressive function of the PTEN signaling pathway and is thus believed to be involved in human cancer pathology.¹ The mRNA of PINK1 is expressed ubiquitously among adult tissues with most abundant expression in the heart, skeletal muscle, and testis.¹ PINK1 is located in mitochondria and its homozygous C-terminus mutation is associated with early onset of Parkinson's disease.²

Cayman's PINK1 polyclonal antibody recognizes primarily the full length protein at about 66 kDa in human, murine, and rat tissues. In addition, a truncated form of the protein at about 33 kDa is also detected.³

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 PTEN Induced Putative Kinase 1 (PINK1) blocking peptide, amino acids 484-504, can be used in conjunction with Cayman's PINK1 Polyclonal Antibody (Item No. 10006283) to block protein-antibody complex formation during immunochemical analysis of PINK1.

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 PINK1 Polyclonal Antibody (Item No. 10006283) 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 prior to further dilution and application of the mixture to the immunoblot.
3. Dilute the reagents 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. Unoki, M. and Nakamura, Y. Growth-suppressive effects of BPOZ and EGR2, two genes involved in the PTEN signaling pathway. *Oncogene* **20**, 4457-4465 (2001).
2. Valente, E.M., Abou-Sleiman, P.M., Caputo, V., *et al.* Hereditary early-onset Parkinson's disease caused by mutations in PINK1. *Science* **304**, 1158-1160 (2004).
3. Mammalian Gene Collection (MGC) Program Team. Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc. Natl. Acad. Sci. USA* **99**(26), 16899-16903 (2002).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10006284

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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

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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