

Datasheet for 009-001-S95S**PI3K (p85 beta) protein-HIS Epitope****Overview**

Description:	PI3K (p85 beta) recombinant protein-HIS Epitope - 009-001-S95S
Item No.:	009-001-S95S
Size:	20 µg
Applications:	SDS-PAGE, WB, Biochemical Assay, Functional Assay
Origin:	Human
Expressed in:	Sf9 cells

Product Details

Background:	Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates the inositol ring of phosphatidylinositol and related lipid products at the 3-prime position. PI3K p85 subunit which is the regulatory subunit of PI3K and consists of 2 closely related proteins, p85-alpha and p85-beta (1). The activation of PI3K signaling in influenza A virus-infected cells is important for efficient virus replication (2). PI3K signaling in T cells can lead to organ-specific autoimmunity and the class IA PI3K-deficient mice manifest the cardinal features of human primary Sjogren's syndrome-like disease (3). PI3K (p85 beta) Protein is ideal for investigators involved in Signaling Proteins, Cellular Proteins, AKT/PKB Pathway, Angiogenesis, Apoptosis/Autophagy, Cancer, Cardiovascular Disease, Inflammation, Invasion/Metastasis, Lipid Kinases, Metabolic Disorder, Neurobiology, NfκB Pathway, and WNT Signaling research.
Synonyms:	PIK3R2, P85B, p85-BETA, Phosphatidylinositol 3-kinase regulatory subunit beta, PI3-kinase regulatory subunit beta, PI3K regulatory subunit beta, PtdIns-3-kinase regulatory subunit beta, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta, PI3-kinase subunit p85-beta, PtdIns-3-kinase regulatory subunit p85-beta
Species of Origin:	Human
Expressed in:	Sf9 cells
Type:	Recombinant Protein

Target Details

Gene Name:	PIK3R2
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Purity/Specificity: Recombinant full length human PI3K (p85 β) was expressed by baculovirus in Sf9 insect cells using an N-Terminal his epitope. The purity was determined to be >85% by densitometry.

Relevant Links:

- [NCBI - NM_005027](#)

Application Details

Tested Applications: SDS-PAGE, WB

Suggested Applications: Biochemical Assay, Functional Assay (Based on references)

Application Note: PI3K (p85 beta) Protein is stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol. Human PI3K (p85 beta) Protein has been tested in SDS-Page and is suitable for use in Western Blot and Kinase Assay. Expect a band approximately ~88kDa on specific lysates or tissues. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 0.1mg/mL by UV absorbance at 280 nm

Buffer: See application note.

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Expiration: Expiration date is one (1) year from date of receipt.

References

- Haapalainen AM et al. Human CPPED1 belongs to calcineurin-like metallophosphoesterase superfamily and dephosphorylates PI3K-AKT pathway component PAK4. *J Cell Mol Med.* (2021)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.