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Datasheet for 000-001-GS4

Hemoglobin A (beta chain) Control Peptide

Overview

Description:	Hemoglobin A (beta chain) Control Peptide - 000-001-GS4
Item No.:	000-001-GS4
Size:	50 µg

Product Details

Background:	HbA peptide correspond to the hemoglobin beta subunit wild type variant A isoform. Functional adult hemoglobin (Hb) is a hetero tetramer composed of 2 alpha and 2 beta subunits (α2β2). Common isoform variants of hemoglobin include HbA, HbS, HbC, HbF, and HbA2. Sickle cell disease (SCD), thalassemias and hemoglobinopathies occur when aberrant forms of hemoglobin are expressed in children and adults. Globin gene mutations affect the structure and expression levels of Hb. Sickle cell disease and the more benign sickle cell trait are observed in more than 100 million people globally. Perhaps the most significant mutation is the E6V in the beta subunit and the cause of SCD, but other relevant isoforms of Hb are observed. HbA peptide can be used as a control with the HbA antibody. This peptide is ideal for investigators involved in Cardiovascular and developmental biology research.
Synonyms:	Hbβ Control Peptide, Hemoglobin beta subunit, HBB, Sickle Cell Disease (SCD)
Type:	Peptide

Target Details

Purity/Specificity:	Greater than 95% specific peptide
Relevant Links:	• 000-001-GS4 SDS • UniProtKB - P68871 • NCBI - NP_000509.1 • GeneID - 3043

Application Details

Application Note:	Hemoglobin A (beta chain) peptide can be used as a control with the HbA antibody. Control peptide should be used at 1.0 µg per 1.0 µl of antiserum in per assay.

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

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by dry weight
Buffer:	None
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	50µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 2-8 °C prior to opening. Aliquot contents and freeze at -20 °C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.
Expiration:	Expiration date is six (6) months from date of receipt.

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.

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