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Datasheet for 009-001-U48S

Ubiquitin protein-HIS Epitope

Overview

Description:	Ubiquitin recombinant protein-HIS Epitope - 009-001-U48S
Item No.:	009-001-U48S
Size:	20 µg
Reactivity:	H. sapiens (Human)
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Ubiquitin is a highly-conserved protein that is widely expressed in eukaryotes (1). Ubiquitin is required for ATP-dependent, nonlysosomal intracellular protein degradation of abnormal and normal proteins with a rapid turnover. A mutant form of ubiquitin, UBB+1,accumulates in the pathological hallmarks of tauopathies, including Alzheimer's disease, polyglutamine diseases, liver disease and muscle disease and serves as an endogenous reporter for proteasomal dysfunction in these diseases. By inhibiting the proteasome machinery, UBB+1 is pathogenic, since it promotes accumulation of cytotoxic misfolded amyloid-beta and phosphorylated-tau (2). Ubiquitin Protein is ideal for investigators involved in Signaling Proteins, Ubiquitin Proteins, Angiogenesis, Apoptosis/Autophagy, Cancer, Cell Cycle, Cellular Stress, Inflammation, Invasion/Metastasis, and Neurobiology research.
Synonyms:	UBB, MGC8385, FLJ25987, Polyubiquitin-B
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein

Target Details

Gene Name:	UBB
Reactivity:	H. sapiens (Human)
Purity/Specificity:	Recombinant human Ubiquitin (amino acids 1-76) protein was expressed by E. coli cells using an N-terminal his epitope. The purity was determined to be >95% by densitometry.

Relevant Links:	• NCBI - NM_018955

Application Details

Application Note:	Ubiquitin Protein is stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol. Ubiquitin Protein is suitable for use in Western Blot. Expect a band approximately ~10kDa 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:	0.2 µg/µl
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.

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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