Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 009-001-U26S

# UBA3 (UBE1C) protein-GST fusion

## Overview

| | |
|---|---|
| **Description:** | UBA3(UBE1C), recombinant protein-GST fusion protein - 009-001-U26S |
| **Item No.:** | 009-001-U26S |
| **Size:** | 20 µg |
| **Origin:** | Human |
| **Expressed in:** | Sf9 cells |

## Product Details

| | |
|---|---|
| **Background:** | UBA3 (also known as UBE1C) or ubiquitin-like modifier activating enzyme 3 is a member of the E1 ubiquitin-activating enzyme family. UBA3 associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, a ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. The mechanism of NEDD8 activation by APPBP1-UBA3 shows a high degree of conservation with ubiquitin activation by UBA1 (1). The NEDD8-activating enzyme, or NAE, composed of NAE1 and UBA3 subunits, is an essential component for the treatment of cancer disease (2). UBA3 Protein is ideal for investigators involved in Signaling Proteins, Ubiquitin Proteins, Cancer, Cell Cycle, and Neurobiology research. |
| **Synonyms:** | UBE1C, UBA3, hUBA3, NEDD8-activating enzyme E1 catalytic subunit |
| **Species of Origin:** | Human |
| **Expressed in:** | Sf9 cells |
| **Type:** | Recombinant Protein |

## Target Details

| | |
|---|---|
| **Gene Name:** | UBA3 |
| **Purity/Specificity:** | Recombinant full-length human UBA3 (UBE1C) was expressed by baculovirus in Sf9 insect cells using an N-Terminal Glutathione-S-Transferase fusion protein. The purity was determined to be >95% by densitometry. |
| **Relevant Links:** | • NCBI - BC022853 |

## Application Details

| | |
|---|---|
| **Application Note:** | UBA3 Protein is stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol. UBA3 Protein is suitable for use in Western Blot. Expect a band approximately ~73kDa 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:** | 0.1 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

www.rockland.com
tech@rockland.com
+1 484.791.3823