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Datasheet for 600-401-A62

# Eif3s6 Int6 Antibody

## Overview

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| **Description:** | Anti-eIF3S6/Int6 (RABBIT) Antibody - 600-401-A62 |
| **Item No.:** | 600-401-A62 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, WB |
| **Reactivity:** | Human, Mouse, Monkey |
| **Host Species:** | Rabbit |

## Product Details

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| **Background:** | This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI). Int6 is a candidate tumor suppressor in multiple neoplasms, and in particular, breast and lung cancers. The Int6 locus was initially identified as a common insertion site (CIS) in a genetic screen for transforming sequences in a breast cancer mouse model system. Insertion of mouse mammary tumor virus (MMTV) into this locus results in the production of an amino-terminal truncated gene product. Expression of the truncated Int6 product corresponds to cellular transformation in both in vivo and in vitro systems. This gene product plays a role in regulating translation initiation and is a component of the eukaryotic translation initiation factor 3 (eIF-3) complex. There is evidence that suggests that Int6 may impart a negative role in the general translational machinery while promoting an increase in the expression of a subset of stress-responsive genes. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression. Taken together, it is of great interest to further study the mechanism by which Int6 is involved in regulating cell growth. Anti-eIF3S6/Int6 Antibody is useful for researchers interested in cancer and apoptosis research. |
| **Synonyms:** | rabbit anti-Eif3s6/Int6 Antibody, rabbit anti-Eif3s6 Antibody, rabbit anti-Int6 Antibody, eIF3e antibody, Eukaryotic translation initiation factor 3 subunit 6 antibody, INT-6 antibody, Viral integration site protein INT 6 antibody, Mammary tumor-associated protein INT-6, MMTV integration site 6, Eukaryotic translation initiation factor 3 subunit E |
| **Host Species:** | Rabbit |

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| **Clonality:** | Polyclonal |
| **Format:** | IgG |

## Target Details

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| **Gene Name:** | Eif3e |
| **Reactivity:** | Human, Mouse, Monkey |
| **Immunogen Type:** | Conjugated Peptide |
| **Immunogen:** | This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the C-terminus of mouse EIF3S6/Int6. |
| **Purity/Specificity:** | This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for mouse eIF3S6/Int6 protein. A BLAST analysis was used to suggest cross-reactivity with most eIF3Se/Int6 isoforms from mouse, human, rat, dog, bovine, and monkey based on 100% homology with the immunizing sequence. Cross-reactivity with EIF3S6/Int6 from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - P60229<br>• NCBI - 45476573<br>• GeneID - 16341 |

## Application Details

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| **Tested Applications:** | ELISA, WB |
| **Application Note:** | This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 48 kDa in size corresponding to eIF3S6/Int6 by western blotting in the appropriate cell lysate or extract. This antibody is capable of detecting both over-expressed and endogenous eIF3S6/Int6. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **ELISA:** | 1:90,000 |
| **WB:** | 1:1,000 |

## Formulation

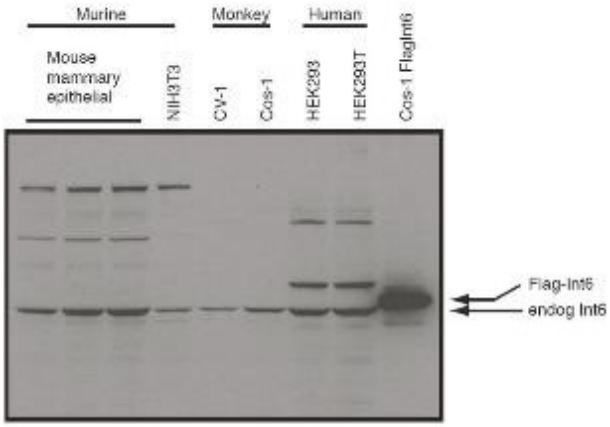
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| **Physical State:** | Liquid (sterile filtered) |

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| **Concentration:** | 0.8 mg/mL by UV absorbance at 280 nm |
| **Buffer:** | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| **Preservative:** | 0.01% (w/v) Sodium Azide |
| **Stabilizer:** | None |

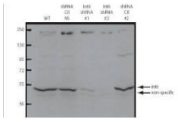
## Shipping & Handling

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| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° 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. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images




**Western Blot**
Western blot using Rockland's affinity purified anti-eIF3S6/Int6 antibody shows detection of endogenous eIF3S6/Int6 in whole cell extracts from murine (HC-11 and NIH3T3), monkey (CV-1 and Cos-1), and human (HEK293T) cell lines as well as over-expressed eIF3S6/Int6 (control transfected flag-tagged Int6). The identity of the higher and lower molecular weight bands is unknown. The band at ~48 kDa, indicated by the arrowhead, corresponds to flag-tagged EIF3S6/Int6. Primary antibody was used at 1:1000. Personal communication, J.Lee, NCI, Bethesda, MD.



**Western Blot**

Western blot using Rockland's affinity purified anti-eIF3S6/Int6 antibody shows detection of endogenous eIF3S6/Int6. Specific staining is not present in lysates containing lentiviral knockdown vectors (shRNA #1 and #2. Control vectors, specifically a scrambled sequence (Ctl NS) and a sequence against an unrelated gene (Ctl #2), were also used. Personal communication, J.Lee, NCI, Bethesda, MD.

## 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.