Datasheet for ABIN349583

anti-EIF3E antibody (C-Term)

2 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	EIF3E
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EIF3E antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Eif3s6 Int6 Antibody
Immunogen:	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. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This antibody is specific for mouse eIF3S6/Int6 protein.
Characteristics:	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

Product Details

Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography.
Sterility:	Sterile filtered

Target Details

Target:	EIF3E
Alternative Name:	Eif3e (EIF3E Products)
Background:	Background: This antibody is designed, produced, and validated as part of a collaboration with 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.
Gene ID:	16341, 45476573
UniProt:	P60229
Pathways:	Ribonucleoprotein Complex Subunit Organization, Hepatitis C

Application Details

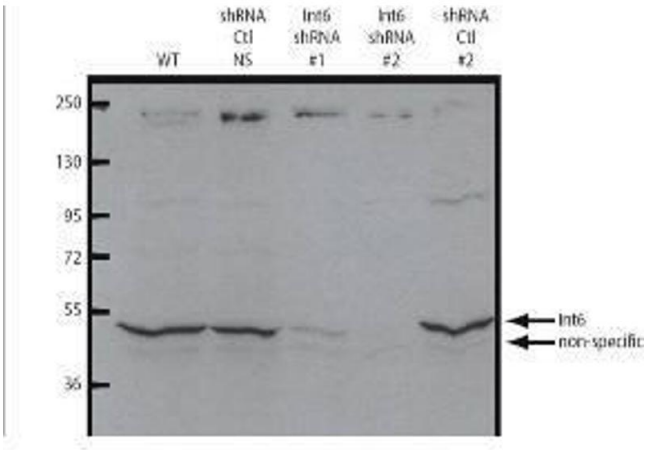
Application Notes:	Application Note: This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band

Application Details

	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. Western Blot Dilution: 1:1,000 ELISA Dilution: 1:90,000 Other: User Optimized
Restrictions:	For Research Use only

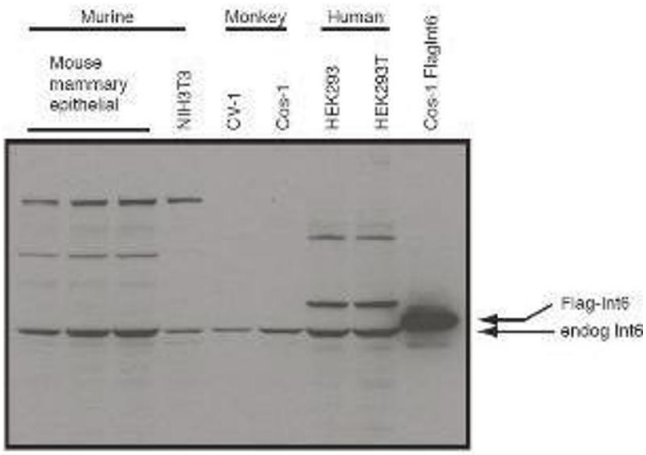
Handling

Format:	Liquid
Concentration:	0.8 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months



Western Blotting

Image 1. Western blot using 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.



Western Blotting

Image 2. Western blot using 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.