Datasheet for ABIN349583

anti-EIF3E antibody (C-Term)

2 Images

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Overview

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

Product Details

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: Peptide
Isotype:	IgG
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.
Cross-Reactivity:	Human, Rat (Rattus), Dog (Canine), Sheep (Ovine), Monkey

Product Details

Characteristics:	This antibody is designed, produced, and validated as part of a collaboration with the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. 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 eIF3 translation initiation 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. Taken together, it is of great interest to further study the mechanism by which Int6 is involved in regulating cell growth.
Purification:	purified

Target Details

Target:	EIF3E
Alternative Name:	Eif3S6 Int6 (EIF3E Products)
Background:	This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. 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 eIF3 translation initiation 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. Taken together, it is of great interest to further study the mechanism by which Int6 is involved in regulating cell growth. Synonyms: eIFe antibody, Eukaryotic translation initiation factor 3 subunit 6 antibody, INT6 antibody, Viral integration site protein INT-6 homolog antibody
Gene ID:	16341, 45476573

Target Details

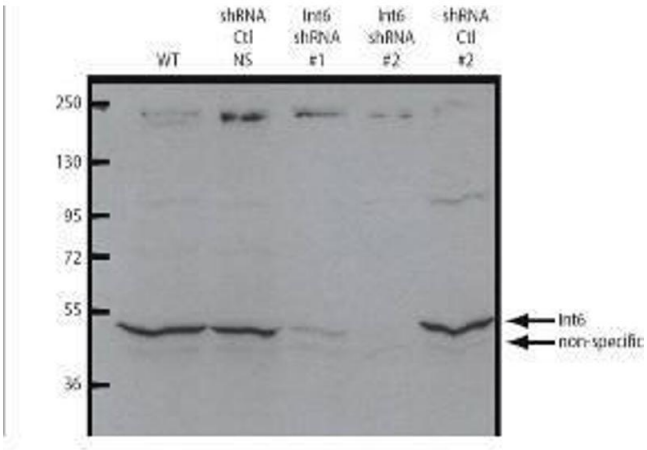
UniProt:	P60229
Pathways:	Ribonucleoprotein Complex Subunit Organization, Hepatitis C

Application Details

Application Notes:	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.
Comment:	Gene Name: EIF3E
Restrictions:	For Research Use only

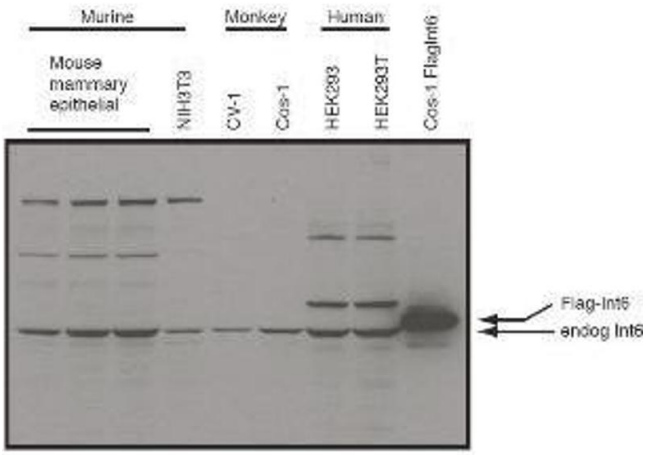
Handling

Format:	Liquid
Concentration:	0.8 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. 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 date is three (3) months from date of opening.
Expiry Date:	3 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.