

# EIF3S6IP (I-14): sc-86428

## BACKGROUND

Int-6, also designated eIF3e, eIF3-p46, eIF3-p48 or eukaryotic translation initiation factor 3, subunit 6, regulates translation and protein degradation through binding with 3 complexes: the eukaryotic translation initiation factor 3 (eIF3) complex, the proteasome regulatory lid and the constitutive photomorphogenesis 9 signalosome. eIF3 is a complex that mediates assembly of 40S ribosomal subunits on mRNA bearing either a 5'-cap or an internal ribosome entry site (IRES). EIF3S6IP (eukaryotic translation initiation factor 3 subunit E-interacting protein) is a 564 amino acid protein that can be phosphorylated on a tyrosine residue. EIF3S6IP is tightly associated with Int-6, and therefore, also interacts with eIF3, suggesting that EIF3S6IP may play a regulatory role during translation and/or protein degradation.

## REFERENCES

1. Asano, K., Merrick, W.C. and Hershey, J.W. 1997. The translation initiation factor eIF3-p48 subunit is encoded by Int-6, a site of frequent integration by the mouse mammary tumor virus genome. *J. Biol. Chem.* 272: 23477-23480.
2. Morris-Desbois, C., Réty, S., Ferro, M., Garin, J. and Jalinot, P. 2001. The human protein HSPC021 interacts with Int-6 and is associated with eukaryotic translation initiation factor 3. *J. Biol. Chem.* 276: 45988-45995.
3. Hoareau Alves, K., Bochar, V., Réty, S. and Jalinot, P. 2002. Association of the mammalian proto-oncoprotein Int-6 with the three protein complexes eIF3, COP9 signalosome and 26S proteasome. *FEBS Lett.* 527: 15-21.
4. Yen, H.C., Gordon, C. and Chang, E.C. 2003. *Schizosaccharomyces pombe* Int6 and Ras homologs regulate cell division and mitotic fidelity via the proteasome. *Cell* 112: 207-217.
5. Online Mendelian Inheritance in Man, OMIM™. 2007. Johns Hopkins University, Baltimore, MD. MIM Number: 602210. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

## CHROMOSOMAL LOCATION

Genetic locus: EIF3L (human) mapping to 22q13.1; Eif3l (mouse) mapping to 15 E1.

## SOURCE

EIF3S6IP (I-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of EIF3S6IP of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-86428 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

EIF3S6IP (I-14) is recommended for detection of EIF3S6IP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EIF3S6IP (I-14) is also recommended for detection of EIF3S6IP in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for EIF3S6IP siRNA (h): sc-77252, EIF3S6IP siRNA (m): sc-144617, EIF3S6IP shRNA Plasmid (h): sc-77252-SH, EIF3S6IP shRNA Plasmid (m): sc-144617-SH, EIF3S6IP shRNA (h) Lentiviral Particles: sc-77252-V and EIF3S6IP shRNA (m) Lentiviral Particles: sc-144617-V.

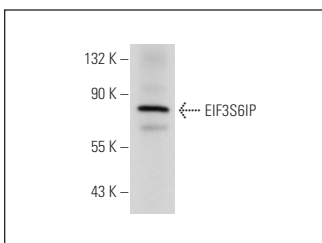
Molecular Weight of EIF3S6IP: 69 kDa.

Positive Controls: mouse adipose tissue extract: sc-395042.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



EIF3S6IP (I-14): sc-86428. Western blot analysis of EIF3S6IP expression in mouse adipose tissue extract.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.