

Int-6 (K-20): sc-31746

BACKGROUND

Int-6, also designated eIF3e, eIF3-p46, eIF3-p48 and eukaryotic translation initiation factor 3, subunit 6, regulates translation and protein degradation through binding with three complexes: the eukaryotic translation initiation factor 3 (eIF3), 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). The Int-6 gene is a site of mouse mammary tumour virus (MMTV) integration in murine tumors. Reducing Int-6 expression by RNA interference in HeLa cells alters mitosis progression through defects in spindle formation, chromosome segregation and cytokinesis. These aberrations appear to correlate with an inhibition of cyclin B-Cdk1 kinase activity, due to a protracted inhibitory phosphorylated state of Cdk1.

REFERENCES

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4. Morris-Desbois, C., et al. 2001. The human protein HSPC021 interacts with Int-6 and is associated with eukaryotic translation initiation factor 3. *J. Biol. Chem.* 276: 45988-45995.
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6. Yen, H.C., et al. 2003. Int-6—a link between the proteasome and tumorigenesis. *Cell Cycle* 2: 81-83.
7. von Arnim, A.G., et al. 2003. Protein homeostasis: a degrading role for Int-6/eIF3e. *Curr. Biol.* 13: R323-R325.
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CHROMOSOMAL LOCATION

Genetic locus: EIF3S6 (human) mapping to 8q23.1; Eif3s6 (mouse) mapping to 15 B3.2.

SOURCE

Int-6 (K-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Int-6 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-31746 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Int-6 (K-20) is recommended for detection of Int-6 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).

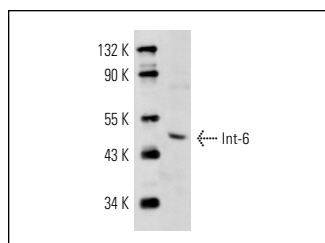
Int-6 (K-20) is also recommended for detection of Int-6 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Int-6 siRNA (h): sc-40561, Int-6 siRNA (m): sc-40562, Int-6 siRNA (r): sc-270194, Int-6 shRNA Plasmid (h): sc-40561-SH, Int-6 shRNA Plasmid (m): sc-40562-SH, Int-6 shRNA Plasmid (r): sc-270194-SH, Int-6 shRNA (h) Lentiviral Particles: sc-40561-V, Int-6 shRNA (m) Lentiviral Particles: sc-40562-V and Int-6 shRNA (r) Lentiviral Particles: sc-270194-V.

Molecular Weight of Int-6: 48 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, NIH/3T3 whole cell lysate: sc-2210 or LADMAC whole cell lysate: sc-364189.

DATA



Int-6 (K-20): sc-31746. Western blot analysis of Int-6 expression in Jurkat whole cell lysate.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Int-6 (A-11): sc-133251** or **Int-6 (H-5): sc-376110**, our highly recommended monoclonal alternatives to Int-6 (K-20).