eIF3γ (H-302): sc-50355



The Power to Question

BACKGROUND

The initiation of protein synthesis in eukaryotic cells is regulated by interactions between protein initiation factors and RNA molecules. Eukaryotic initiation factors (elFs) are utilized in a sequence of reactions that lead to 80S ribosomal assembly and, ultimately, translation. The eukaryotic initiation factor-3 (elF3) scaffolding structure is the largest of the elF complexes and includes elF3 α , elF3 β , elF

REFERENCES

- Valásek, L., et al. 2004. Interactions of eukaryotic translation initiation factor 3 (eIF3) subunit NIP1/c with eIF1 and eIF5 promote preinitiation complex assembly and regulate start codon selection. Mol. Cell. Biol. 24: 9437-9455.
- 2. Peterson, T.R. and Sabatini, D.M. 2005. eIF3: a connector of S6K1 to the translation preinitiation complex. Mol. Cell 20: 655-657.

CHROMOSOMAL LOCATION

Genetic locus: EIF3H (human) mapping to 8q23.3; Eif3h (mouse) mapping to 15 $\,\mathrm{C}$.

SOURCE

elF3γ (H-302) is a rabbit polyclonal antibody raised against amino acids 51-352 mapping at the C-terminus of elF3γ of human origin.

PRODUCT

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

APPLICATIONS

elF3 γ (H-302) is recommended for detection of elF3 γ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

elF3 γ (H-302) is also recommended for detection of elF3 γ in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for elF3 γ siRNA (h): sc-40549, elF3 γ siRNA (m): sc-60048, elF3 γ shRNA Plasmid (h): sc-40549-SH, elF3 γ shRNA (h) Lentiviral Particles: sc-40549-V and elF3 γ shRNA (m) Lentiviral Particles: sc-60048-V.

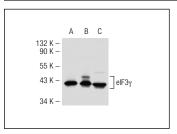
Molecular Weight of eIF3γ: 40 kDa.

Positive Controls: eIF3 γ (h): 293T Lysate: sc-111538, MCF7 whole cell lysate: sc-2206 or Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



elF3_Y (H-302): sc-50355. Western blot analysis of elF3_Y expression in non-transfected 293T: sc-117752 (**A**), human elF3_Y transfected 293T: sc-111538 (**B**) and MCF7 (**C**) whole cell lysates.

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 **eIF3\gamma (E-10):** sc-271283, our highly recommended monoclonal alternative to eIF3 γ (H-302).

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