# eIF3β (H-300): sc-50357



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 $\alpha$ , elF3 $\beta$ , elF3 $\gamma$ , elF3 $\beta$ , elF

# **CHROMOSOMAL LOCATION**

Genetic locus: EIF3S2 (human) mapping to 1p35.1; Eif3s2 (mouse) mapping to 4 D2.2.

#### SOURCE

elF3 $\beta$  (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping within an internal region of elF3 $\beta$  of human origin.

### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

# **STORAGE**

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

### **APPLICATIONS**

eIF3 $\beta$  (H-300) is recommended for detection of eIF3 $\beta$  of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 $\beta$  (H-300) is also recommended for detection of elF3 $\beta$  in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for eIF3 $\beta$  siRNA (h): sc-60080, eIF3 $\beta$  siRNA (m): sc-60081, eIF3 $\beta$  shRNA Plasmid (h): sc-60080-SH, eIF3 $\beta$  shRNA (h) Lentiviral Particles: sc-60080-V and eIF3 $\beta$  shRNA (m) Lentiviral Particles: sc-60081-V.

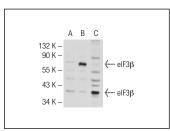
Molecular Weight of elF3β: 36 kDa.

Positive Controls: eIF3 $\beta$  (h2): 293T Lysate: sc-173271, HeLa whole cell lysate: sc-2200 or T24 cell lysate: sc-2292.

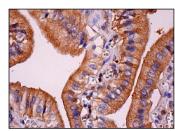
#### **RECOMMENDED SECONDARY REAGENTS**

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

### **DATA**







eIF3β (H-300): sc-50357. Immunoperoxidase staining of formalin fixed, paraffin-embedded human gall bladder tissue showing cytoplasmic staining of dlandular cells.

## **SELECT PRODUCT CITATIONS**

Ramachandran, A., et al. 2012. Localization of transforming growth factor β
receptor II interacting protein-1 in bone and teeth: implications in matrix
mineralization. J. Histochem. Cytochem. 60: 323-337.

#### **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 $\beta$  (A-7): sc-374156 or eIF3 $\beta$  (B-6): sc-271539, our highly recommended monoclonal alternatives to eIF3 $\beta$  (H-300).

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