

EIF3I Antibody / Eukaryotic translation initiation factor 3 subunit I Antibody (FY13573)

Catalog No.	Formulation	Size
FY13573	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q13347
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml ELISA : 0.1-0.5 ug/ml
Limitations	The EIF3I Antibody / Eukaryotic translation initiation factor 3 subunit I Antibody is available for research use only.

EIF3I Antibody by WB in human and rodent lysates. Western blot analysis using Eukaryotic translation initiation factor 3 subunit I Antibody detects a prominent immunoreactive band near 37 kDa in SH-SY5Y (lane 1), Jurkat (lane 2), rat brain (lane 3), rat RH35 (lane 4), mouse brain (lane 5), and mouse NIH/3T3 (lane 6). The calculated molecular weight is approximately 36.5 kDa. Samples were analyzed under reducing conditions with 30 ug protein per lane using 10% SDS-PAGE, followed by transfer to nitrocellulose. Membranes were blocked with 5% nonfat milk and incubated with primary antibody at 0.5 ug/mL overnight at 4oC. HRP-conjugated secondary antibody and chemiluminescent substrate were used for visualization.

EIF3I Antibody by IHC in human liver carcinoma. Immunohistochemistry of paraffin-embedded human liver carcinoma using Eukaryotic translation initiation factor 3 subunit I Antibody demonstrates brown cytoplasmic staining in tumor cells, with variation in intensity between malignant cell clusters, with hematoxylin-counterstained nuclei appearing blue. Sections were subjected to heat-mediated antigen retrieval in EDTA buffer at pH 8.0 and blocked with 10% goat serum. The primary antibody was incubated at 2 ug/mL overnight at 4oC, followed by peroxidase-conjugated secondary antibody and DAB detection.

Description

EIF3I Antibody / Eukaryotic translation initiation factor 3 subunit I Antibody detects EIF3I, a component of the multiprotein EIF3 complex. EIF3 is a central organizer of translation initiation that helps coordinate recruitment of the small ribosomal subunit, messenger RNA, and other initiation factors. Its subunits form an interconnected assembly with distinct structural and regulatory contributions. EIF3I is part of this larger complex and should not be considered a stand-alone factor capable of initiating translation independently.

Formation of a productive translation initiation complex requires accurate start-codon selection and the orderly recruitment and release of initiation proteins. EIF3 helps prevent inappropriate joining of ribosomal subunits before initiation is complete and supports interactions between the 40S subunit and messenger RNA-associated factors. EIF3I contributes to the integrity and function of this machinery. Because EIF3 participates in multiple stages of initiation, changes in one subunit may influence complex assembly or the translation of selected transcripts rather than uniformly altering every protein made by the cell. The Eukaryotic translation initiation factor 3 subunit I Antibody designation refers to this same molecular target.

EIF3I has been examined in relation to cellular proliferation and signaling-associated changes in translation. Altered expression has been described in several disease contexts, but such associations do not establish that EIF3I alone determines the outcome. The protein is also known historically as TRIP1, a name that can appear in older literature. NSJ Bioreagents includes EIF3I among its targets associated with protein synthesis and translational regulation. An EIF3I Antibody provides a way to investigate the biological role of EIF3I and the molecular processes associated with this target.

Explore related research targets in our [Cell Biology Antibodies](#) collection.

Application Notes

The ideal working dilution for the EIF3I Antibody / Eukaryotic translation initiation factor 3 subunit I Antibody should be established by the investigator based on assay conditions.

Immunogen

The EIF3I Antibody was generated using e. coli-derived human EIF3I recombinant protein (amino acids M1-Q317).

Storage

The EIF3I Antibody is stable for up to one month at 4oC after reconstitution. For longer-term storage, aliquot and store at -20oC for up to six months. Do not repeatedly freeze and thaw.

Alternate Names

EIF3I antibody, Eukaryotic translation initiation factor 3 subunit I antibody, Eukaryotic translation initiation factor 3 subunit 2 antibody, EIF3S2 antibody, eIF-3-beta antibody, eIF3 p36 antibody, eIF3 beta antibody

