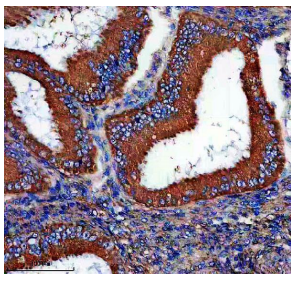
EIF3M Antibody / Eukaryotic translation initiation factor 3 subunit M Antibody (FY13589)

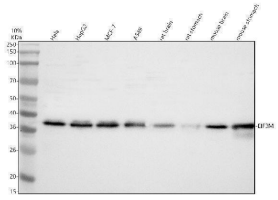
Catalog No.	Formulation	Size
FY13589	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

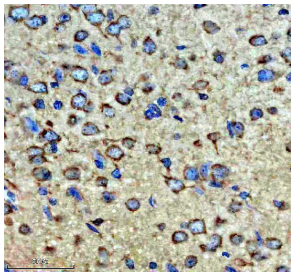
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q7L2H7
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml ELISA: 0.1-0.5 ug/ml
Limitations	For research use only, this EIF3M Antibody / Eukaryotic translation initiation factor 3 subunit M Antibody is not intended for diagnostic or therapeutic use.



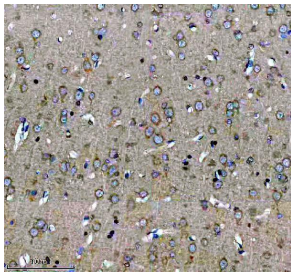
EIF3M Antibody by IHC in human endometrial carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded human endometrial carcinoma using Eukaryotic translation initiation factor 3 subunit M Antibody shows strong brown immunoreactivity in tumor epithelial regions, with blue nuclear counterstaining. Heat-induced antigen retrieval was performed in EDTA buffer at pH 8.0, followed by blocking with 10% goat serum. Sections were incubated with primary antibody at 2 ug/mL overnight at 4oC. HRP-conjugated secondary antibody and DAB chromogen generated brown immunoreactivity, with hematoxylin counterstaining highlighting nuclei.



EIF3M Antibody by WB in human cells and rodent tissues. Western blot analysis using Eukaryotic translation initiation factor 3 subunit M Antibody detects a prominent band near 38 kDa, compared with the calculated molecular weight of approximately 42 kDa. Lanes 1-4 contain HeLa, HepG2, MCF-7 and A549 cell lysates; lanes 5-8 contain rat brain, rat stomach, mouse brain and mouse stomach lysates. Reduced lysates containing 30 ug total protein per lane were separated by 10% SDS-PAGE and transferred to nitrocellulose. After blocking with 5% nonfat milk, the membrane was incubated with primary antibody at 0.5 ug/mL overnight at 4oC. Detection employed an HRP-conjugated anti-rabbit secondary antibody and chemiluminescent substrate.



EIF3M Antibody by IHC in mouse brain. Immunohistochemistry of formalin-fixed, paraffin-embedded mouse brain using Eukaryotic translation initiation factor 3 subunit M Antibody shows scattered brown cellular staining within brain parenchyma. Heat-induced antigen retrieval was performed in EDTA buffer at pH 8.0, followed by blocking with 10% goat serum. Sections were incubated with primary antibody at 2 ug/mL overnight at 4oC. HRP-conjugated secondary antibody and DAB chromogen generated brown immunoreactivity, with hematoxylin counterstaining highlighting nuclei.



EIF3M Antibody by IHC in rat brain. Immunohistochemistry of formalin-fixed, paraffin-embedded rat brain using Eukaryotic translation initiation factor 3 subunit M Antibody shows brown staining in scattered cells across the examined brain section. Heat-induced antigen retrieval was performed in EDTA buffer at pH 8.0, followed by blocking with 10% goat serum. Sections were incubated with primary antibody at 2 ug/mL overnight at 4oC. HRP-conjugated secondary antibody and DAB chromogen generated brown immunoreactivity, with hematoxylin counterstaining highlighting nuclei.

Description

EIF3M Antibody / Eukaryotic translation initiation factor 3 subunit M Antibody detects EIF3M, a component of the multiprotein eIF3 complex. Translation initiation is the stage of protein synthesis during which ribosomal subunits, messenger RNA, and initiator transfer RNA are assembled into a productive complex. eIF3 helps coordinate these events and supports the recruitment and organization of initiation machinery on the small ribosomal subunit. EIF3M contributes to the structural and functional integrity of this large assembly rather than acting as a stand-alone translation factor.

The eIF3 complex contains multiple subunits with different structural domains and interaction surfaces. Its functions include promoting proper initiation-complex formation and regulating interactions with other initiation factors. The complex also participates in transcript-selective translation under certain conditions, linking the machinery of protein synthesis to cellular growth and stress signaling. EIF3M is associated with the core eIF3 assembly, where the stability of individual subunits can influence the behavior of the complex as a whole. Changes in translation initiation can alter the production of many proteins even without corresponding changes in messenger RNA abundance. The Eukaryotic translation initiation factor 3 subunit M Antibody name refers to this same gene product.

EIF3M has been investigated in proliferative disorders and tumor-associated translational regulation. Some studies report associations between its expression and cancer cell growth, but these findings do not establish a uniform effect in every tissue. The broader biological significance of EIF3M lies in its participation in the controlled conversion of genetic information into protein. Cells must continually adjust translation rates to match nutrient availability, signaling inputs, and demands for new proteins. NSJ Bioreagents includes EIF3M among factors involved in ribosome-associated initiation and the regulation of protein synthesis. An EIF3M Antibody provides a way to investigate the molecular biology associated with this protein.

Explore related research targets in our Cell Biology Antibodies collection.

Application Notes

Investigators should determine the optimal dilution of the EIF3M Antibody / Eukaryotic translation initiation factor 3 subunit M Antibody empirically for their experimental conditions.

Immunogen

The EIF3M Antibody was generated using e. coli-derived human EIF3M recombinant protein (amino acids H39-N366).

Storage

After reconstitution, keep the EIF3M Antibody at 4oC for up to one month. Alternatively, store aliquots at -20oC for up to six months. Avoid multiple freezing and thawing cycles.

Alternate Names

EIF3M antibody, Eukaryotic translation initiation factor 3 subunit M antibody, PCID1 antibody, hFL-B5 antibody, HFLB5 antibody, hfl B5 antibody, GA17 antibody

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