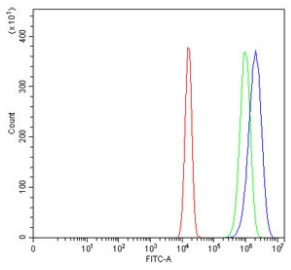
eIF-3 p48 Antibody / INT6 Antibody [clone 10F5H6] (RQ6979)

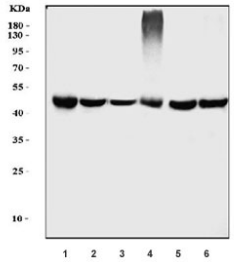
Catalog No.	Formulation	Size
RQ6979	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	10F5H6
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P60228
Applications	Western blot: 0.5-1 ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This eIF-3 p48 Antibody / INT6 Antibody is available for research use only.



eIF-3 p48 Antibody U-2 OS FACS. Flow cytometry was performed on fixed and permeabilized human U-2 OS cells using eIF-3 p48 Antibody / INT6 Antibody at 1 ug/million cells following blocking with goat serum. Red: cells alone; green: isotype control; blue: eIF-3 p48 Antibody. The antibody-stained population displays a clear rightward shift relative to the isotype control, demonstrating specific intracellular detection of eIF-3 p48 (INT6/EIF3E). These results demonstrate that this INT6 Antibody is suitable for flow cytometric detection of eIF-3 p48 in human cells.



eIF-3 p48 Antibody Human, Mouse and Rat WB. Western blot analysis was performed using eIF-3 p48 Antibody / INT6 Antibody. Lane 1: human Raji cell lysate; lane 2: human K562 cell lysate; lane 3: rat thymus tissue lysate; lane 4: mouse thymus tissue lysate; lane 5: mouse ANA-1 cell lysate; lane 6: mouse RAW264.7 cell lysate. A specific immunoreactive band is detected at approximately 48â€“52 kDa in all tested samples, consistent with the expected molecular weight of eIF-3 p48 (INT6/EIF3E). These results demonstrate that this INT6 Antibody is suitable for Western blot detection of eIF-3 p48 across human, rat, and mouse samples.

Description

eIF-3 p48 Antibody recognizes the protein historically known as eIF-3 p48, now designated EIF3E and also widely referred to as INT6. This protein is an essential component of the eukaryotic translation initiation factor 3 complex, where it contributes to the recruitment of messenger RNA and assembly of the translation pre-initiation complex during protein synthesis. Because eIF-3 p48 participates in both translational regulation and broader cellular signaling pathways, it has become an important target for studies of cell growth, differentiation, and disease. NSJ Bioreagents provides eIF-3 p48 Antibody for reliable detection of this multifunctional protein in diverse research applications.

The name INT6 originated from its identification as a common integration site for mouse mammary tumor virus, leading to early recognition of its association with tumor development. Subsequent research established that INT6 and EIF3E are the same protein and demonstrated its role within the eIF3 translation initiation complex. Beyond protein synthesis, EIF3E has been implicated in proteasome regulation, DNA damage responses, cell cycle progression, and maintenance of cellular homeostasis. These diverse functions have made eIF-3 p48 Antibody a valuable reagent for investigating the relationship between translational control and cellular physiology.

Altered expression or regulation of EIF3E has been reported in several human malignancies, including breast, lung, colorectal, and ovarian cancers. Depending on cellular context, INT6 has been described as possessing both tumor suppressive and oncogenic properties, reflecting its central role in coordinating selective messenger RNA translation with signaling pathways that govern proliferation and survival. As a result, eIF-3 p48 remains an important target in cancer biology, developmental biology, and studies of cellular stress responses. Researchers also use antibodies against this protein to investigate ribosome-associated processes, protein synthesis, and mechanisms controlling gene expression.

An eIF-3 p48 Antibody is a valuable reagent for studies of translation initiation, ribosome function, protein synthesis, and cancer biology. By enabling detection of the historical INT6 protein as well as its modern designation EIF3E, an eIF-3 p48 Antibody supports investigations spanning translational regulation, cellular homeostasis, and disease mechanisms.

For additional information on this protein and validated reagents for its detection, visit our EIF3E Antibody / Translation Initiation Factor Antibody page.

Application Notes

Optimal dilution of the eIF-3 p48 Antibody / INT6 Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids A160-Q241) was used as the immunogen for the eIF-3 p48 antibody.

Storage

After reconstitution, the eIF-3 p48 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

INT6 antibody, EIF3E antibody, Eukaryotic Translation Initiation Factor 3 Subunit E antibody, EIF3S6 antibody,

Translation Initiation Factor eIF3e antibody, p48 antibody

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