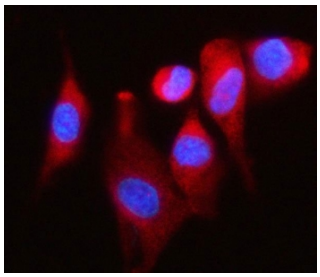
DAP5 Antibody / EIF4G2 / Death-associated protein 5 (RQ7341)

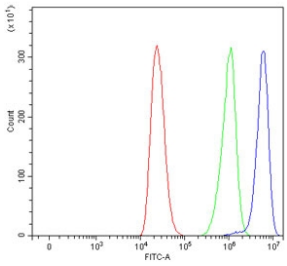
Catalog No.	Formulation	Size
RQ7341	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

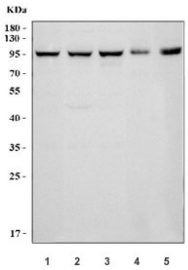
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P78344
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml Immunoprecipitation : 2ug per 500ug of lysate
Limitations	This DAP5 antibody is available for research use only.



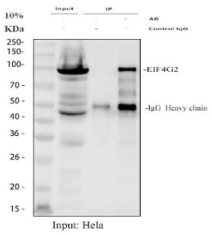
Immunofluorescent staining of FFPE human U-87 MG cells with DAP5 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human ThP-1 cells with DAP5 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DAP5 antibody.



Western blot testing of 1) human MCF7, 2) human HeLa, 3) monkey COS-7, 4) rat skeletal muscle and 5) mouse skeletal muscle with DAP5 antibody. Expected molecular weight ~97 kDa.



Immunoprecipitation of DAP5 protein from 500ug of human HeLa whole cell lysate with 2ug of DAP5 antibody.

Description

DAP5 (Death-associated protein 5), also known as EIF4G2, is a member of the eukaryotic initiation factor 4G family. Unlike canonical initiation factors, DAP5 plays a specialized role in cap-independent translation, particularly under conditions of cellular stress, apoptosis, or development. By enabling selective protein synthesis, DAP5 supports survival pathways and regulates gene expression programs essential for adaptation. Researchers commonly use a DAP5 antibody to study these processes in molecular and cellular biology.

Functionally, DAP5 interacts with components of the translation initiation complex, promoting internal ribosome entry site (IRES)-mediated translation. This activity is important in contexts where cap-dependent initiation is suppressed, such as during apoptosis or stress signaling. Dysregulation of DAP5 has been linked to abnormal cell survival, oncogenic pathways, and immune responses. A DAP5 antibody is frequently applied in research exploring cancer biology, cell death mechanisms, and translational control.

Given its central role in regulating stress-induced protein synthesis, DAP5 serves as an important marker for studies of apoptosis, tumor biology, and developmental regulation. NSJ Bioreagents offers a validated DAP5 antibody to support applications including western blot, immunohistochemistry, and immunoprecipitation.

Application Notes

Optimal dilution of the DAP5 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids E91-E790) was used as the immunogen for the DAP5 antibody.

Storage

After reconstitution, the DAP5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at

-20oC. Avoid repeated freezing and thawing.

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