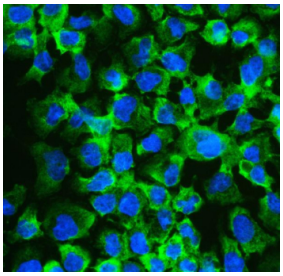
EIF4A2 Antibody (R32226)

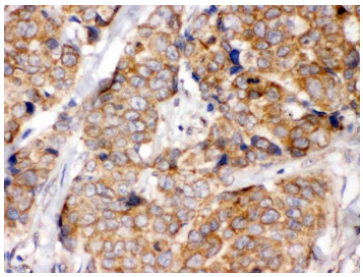
Catalog No.	Formulation	Size
R32226	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

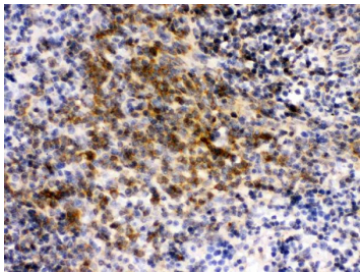
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q14240
Localization	Cytoplasm
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Immunoprecipitation: 2ug per 500ug of lysate
Limitations	This EIF4A2 antibody is available for research use only.



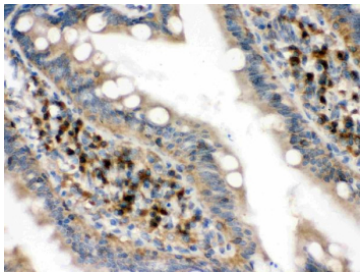
Immunofluorescent staining of FFPE human A431 cells with EIF4A2 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



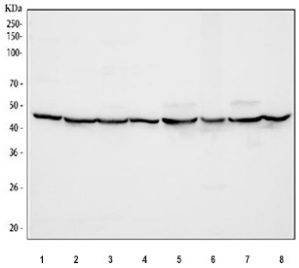
IHC staining of FFPE human breast cancer tissue with EIF4A2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



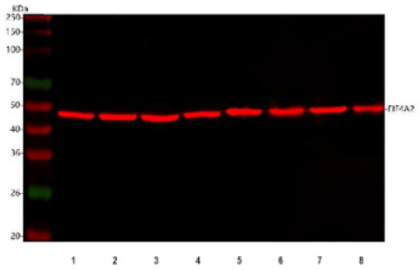
IHC staining of FFPE mouse spleen tissue with EIF4A2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



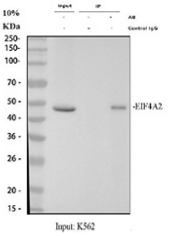
IHC staining of FFPE rat intestine tissue with EIF4A2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



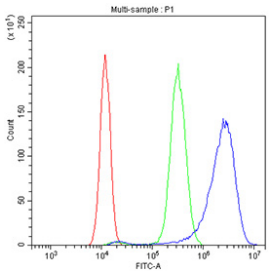
Western blot testing of 1) human HepG2, 2) human U-251, 3) human SiHa, 4) human K562, 5) rat brain, 6) rat lung, 7) mouse brain and 8) mouse lung tissue lysate with EIF4A2 antibody. Expected molecular weight ~46 kDa.



Western blot testing of 1) human HepG2, 2) human U-251, 3) human SiHa, 4) human K562, 5) rat brain, 6) rat lung, 7) mouse brain and 8) mouse lung tissue lysate with DyLight 647 conjugated secondary and EIF4A2 antibody. Expected molecular weight ~46 kDa.



Immunoprecipitation of EIF4A2 protein from 500ug of human K562 whole cell lysate with 2ug of EIF4A2 antibody.



Flow cytometry testing of fixed and permeabilized human SiHa cells with EIF4A2 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= EIF4A2 antibody.

Description

Eukaryotic initiation factor 4A2 (EIF4A2) is an ATP-dependent RNA helicase that belongs to the DEAD-box protein family. It functions as part of the eIF4F translation initiation complex, where it unwinds secondary structures in the 5Ã¢Â€Â² untranslated region of mRNAs to facilitate ribosome binding and translation initiation.

EIF4A2 is expressed in many tissues and has been implicated in regulating cell growth, proliferation, and stress responses. Dysregulation of EIF4A2 activity has been associated with cancer progression and altered gene expression, making it an important focus for translational and molecular biology research.

Using a high-quality EIF4A2 antibody enables accurate detection in applications such as western blot, immunohistochemistry, and immunoprecipitation. An EIF4A2 antibody from NSJ Bioreagents ensures reproducibility and sensitivity for studies of translation initiation, RNA metabolism, and disease mechanisms. Selecting the right EIF4A2 antibody is essential for generating consistent and meaningful results.

Application Notes

Optimal dilution of the EIF4A2 antibody should be determined by the researcher.

Immunogen

Amino acids SADYNREHGGPEGMDPDGVIESNWNEI of human EIF4A2 were used as the immunogen for the EIF4A2 antibody.

Storage

After reconstitution, the EIF4A2 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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