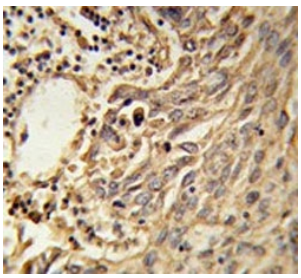
EIF4A2 Antibody (F54470)

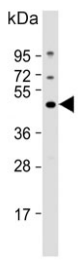
Catalog No.	Formulation	Size
F54470-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54470-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

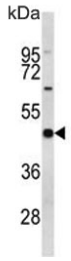
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q14240
Applications	Western Blot : 1:500-1:2000 Flow Cytometry : 1:25 (1x10e6 cells) Immunohistochemistry (FFPE) : 1:25
Limitations	This EIF4A2 antibody is available for research use only.



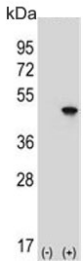
IHC testing of FFPE human lung carcinoma tissue with EIF4A2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



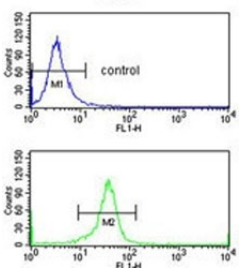
Western blot testing of human MCF7 cell lysate with EIF4A2 antibody. Predicted molecular weight ~46 kDa.



Western blot testing of human K562 cell lysate with EIF4A2 antibody. Predicted molecular weight ~46 kDa.



Western blot testing of 1) non-transfected and 2) transfected 293 cell lysate with EIF4A2 antibody.



Flow cytometry testing of human K562 cells with EIF4A2 antibody; Blue=isotype control, Green= EIF4A2 antibody.

Description

Eukaryotic initiation factor 4A plays an important role in the binding of mRNA to the 43S preinitiation complex when protein synthesis begins. Two highly homologous forms of functional EIF4A genes, Eif4a1 and Eif4a2, have been isolated in mice; yeast cells also possess 2 EIF4A genes, TIF1 and TIF2. The murine Eif4a and yeast TIF genes appear to belong to a DEAD-box gene family, whose members exhibit extensive amino acid similarity and contain the asp-glu-ala-asp (DEAD) sequence. DEAD-box genes have been identified in species ranging from E-coli to humans. Their function appears to be related to transcriptional/translational regulation (referenced from OMIM).

Application Notes

The stated application concentrations are suggested starting points. Titration of the EIF4A2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 333-360 from the human protein was used as the immunogen for the EIF4A2 antibody.

Storage

Aliquot the EIF4A2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.