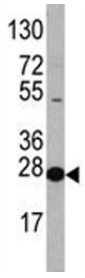
EIF4E Antibody (F47410)

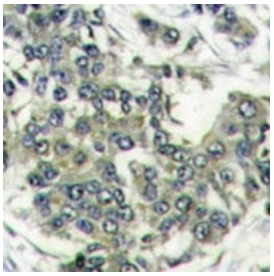
Catalog No.	Formulation	Size
F47410-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F47410-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Rat, Bovine, Zebrafish, Rabbit, Xenopus
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P06730
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100
Limitations	This EIF4E antibody is available for research use only.



Western blot analysis of EIF4E antibody and HL-60 lysate. Predicted molecular weight ~27 kDa.



IHC analysis of FFPE human breast carcinoma stained with EIF4E antibody

Description

eIF4F is a multi-subunit complex, the composition of which varies with external and internal environmental conditions. It is composed of at least EIF4A, EIF4E and EIF4G1/EIF4G3. EIF4E is also known to interact with other partners. The interaction with EIF4ENIF1 mediates the import into the nucleus. Nonphosphorylated EIF4EBP1, EIF4EBP2 and EIF4EBP3 compete with EIF4G1/EIF4G3 to interact with EIF4E; insulin stimulated MAP-kinase (MAPK1 and MAPK3) phosphorylation of EIF4EBP1 causes dissociation of the complex allowing EIF4G1/EIF4G3 to bind and consequent initiation of translation. Rapamycin can attenuate insulin stimulation, mediated by FKBPs. this gene also interacts mutually exclusive with EIF4A1 and EIF4A2.

Application Notes

Titration of the EIF4E antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 32-61 from the human protein was used as the immunogen for this EIF4E antibody.

Storage

Aliquot the EIF4E antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.