

## Anti-Eif4e Rabbit pAb



WLA0654

For Research Use Only. Not For Use In Diagnostic Procedures

## Product Information

<b>Product name</b>	Anti-Eif4e Rabbit pAb	
<b>Source</b>	Rabbit	
<b>Species reactivity</b>	Human, Mouse, Rat	
<b>Tested applications</b>	WB	1:1000-1:2000
	IHC、IF	1:100-1:500
<b>Cellular localization</b>	Cytoplasm, Nucleus.	
<b>Pack size</b>	50/100/200/500/1000µl	
<b>Storage</b>	Store at -20°C. <b>Avoid freeze/thaw cycles.</b>	
<b>Storage buffer</b>	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 µg/ml	

## General Information

## Background

EIF4E (eukaryotic translation initiation factor 4E) is a key protein encoded by the EIF4E gene in human cells, whose functions cover multiple biological processes from protein synthesis to tumorigenesis. This protein plays a crucial role in the translation regulation of eukaryotic cells as an mRNA cap structure binding protein. EIF4E, as an important component of eIF4F complex, specifically recognizes and binds to the 7-methylguanosine (m7G) cap structure at the 5' end of mRNA. This specific binding is a crucial first step in translation initiation, followed by the binding of EIF4E to the scaffold protein EIF4G1, recruiting other translation initiation factors such as EIF4A and EIF3 to form a complete eIF4F complex. It is worth noting that the binding of EIF4E to eIF4G is the rate limiting step in translation initiation, and its regulation directly affects the efficiency of protein synthesis. In addition to its classic role in translation initiation, EIF4E also participates in the nuclear export process of specific mRNAs. EIF4E, as a proto oncogene, its expression and activation are closely related to cell transformation and tumorigenesis.

## Immunogen

Polyclonal antibody is produced by immunizing animals with a synthetic peptide of Eif4e.

## Purification

Polyclonal antibody was purified by Protein A affinity chromatography.

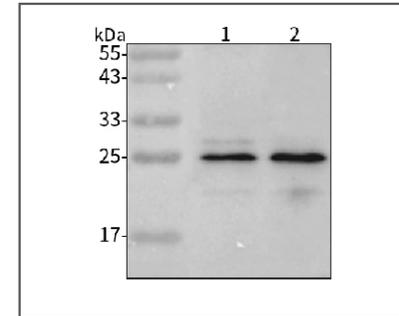
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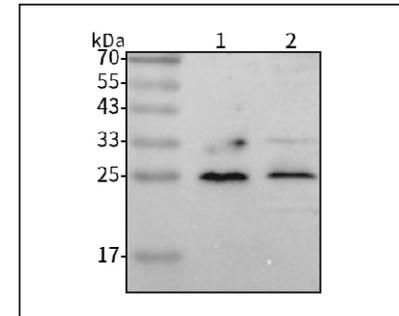
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## Product Images



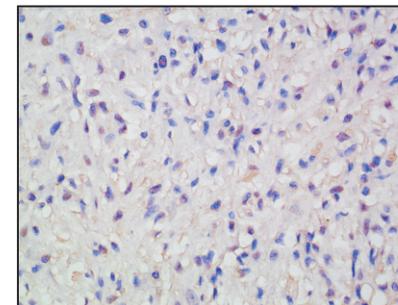
## Western blot-Anti-Eif4e pAb

Lane 1: Human HEK293 cell lysate  
Lane 2: Human HUVEC cell lysate  
All lanes: Anti-Eif4e at 1:2000 dilution  
Lysates/proteins at 20-50 µg per lane.  
Predicted band size: 25 kDa  
Observed band size: 25 kDa



## Western blot-Anti-Eif4e pAb

Lane 1: Mouse kidney tissue lysate  
Lane 2: Rat lung tissue lysate  
All lanes: Anti-Eif4e at 1:2000 dilution  
Lysates/proteins at 20-50 µg per lane.  
Predicted band size: 25 kDa  
Observed band size: 25 kDa



## Immunohistochemistry-Anti-Eif4e pAb

Immunohistochemical analysis of paraffin-embedded human brain glioma using anti-Eif4e Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

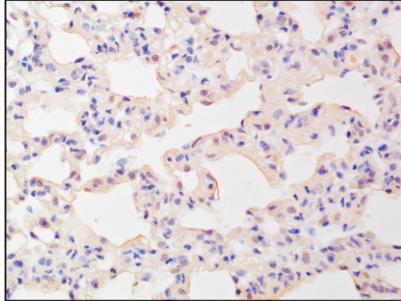
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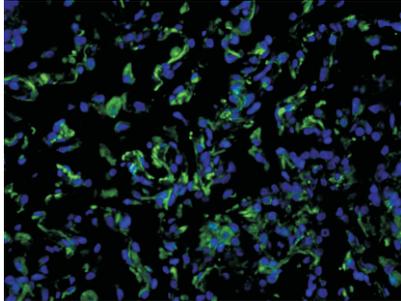
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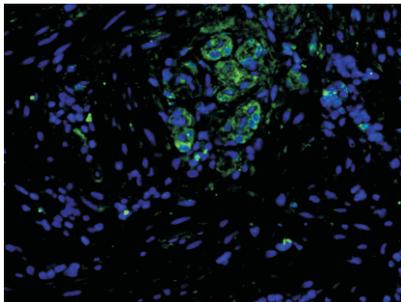
#### Immunohistochemistry-Anti-Eif4e pAb

Immunohistochemical analysis of paraffin-embedded rat lung using anti-Eif4e Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-Eif4e pAb

Immunofluorescence analysis of paraffin-embedded human lung cancer using anti-Eif4e Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0



#### Immunofluorescence-Anti-Eif4e pAb

Immunofluorescence analysis of paraffin-embedded human stomach cancer using anti-Eif4e Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0

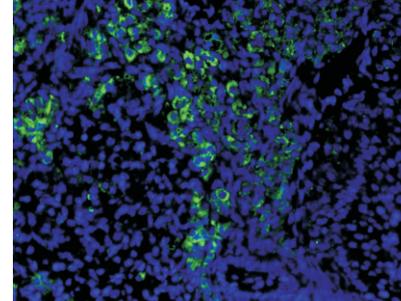
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#### Immunofluorescence-Anti-Eif4e pAb

Immunofluorescence analysis of paraffin-embedded mouse ovary using anti-Eif4e Rabbit Antibody at 1:200 dilution.  
Perform heat mediated antigen retrieval with Tris-EDTA buffer pH 9.0