

eIF4E Polyclonal Antibody

Catalog NumberPA5-24582

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Flow Cytometry (Flow)	1:10-1:50
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Immunogen	recombinant protein from human VGFR2.	Western Blot (WB)	1:1,000
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	0.25 mg/mL		
Purification	Protein A, Antigen affinity chromatography		
Storage buffer	PBS, pH 7.4		
Contains	0.09% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Background/Target Information

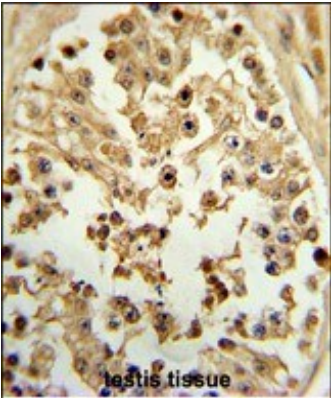
eIF4E is involved in several cellular processes including enhanced translational efficiency, splicing, mRNA stability, and RNA nuclear export. All eukaryotic cellular mRNAs are blocked at their 5-prime ends with the 7-methylguanosine cap structure, m7GpppX (where X is any nucleotide). EIF4E is a eukaryotic translation initiation factor involved in directing ribosomes to the cap structure of mRNAs. It is a 24-kD polypeptide that exists as both a free form and as part of a multiprotein complex termed EIF4F. The EIF4E polypeptide is the rate-limiting component of the eukaryotic translation apparatus and is involved in the mRNA-ribosome binding step of eukaryotic protein synthesis. The other subunits of EIF4F are a 50-kD polypeptide, termed EIF4A, that possesses ATPase and RNA helicase activities, and a 220-kD polypeptide, EIF4G.

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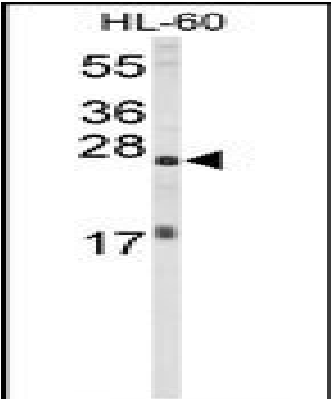
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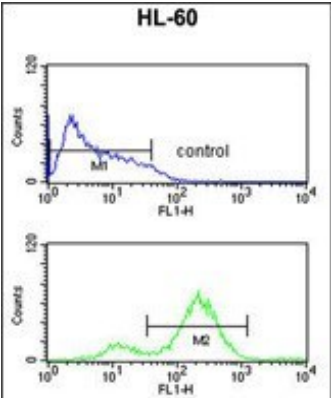
eIF4E Antibody (PA5-24582) in IHC (P)

Immunohistochemistry analysis of eIF4E in formalin-fixed and paraffin-embedded human testis tissue. Samples were incubated with eIF4E polyclonal antibody (Product # PA5-24582) which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



eIF4E Antibody (PA5-24582) in WB

Western blot analysis of eIF4E in HL-60 cell line lysates. Samples were incubated with eIF4E polyclonal antibody (Product # PA5-24582). Lysates: 35 µg/lane. EIF4E (arrow).



eIF4E Antibody (PA5-24582) in Flow

Flow cytometry of eIF4E in HL-60 cells (bottom histogram). Samples were incubated with eIF4E polyclonal antibody (Product # PA5-24582) followed by FITC-conjugated goat-anti-rabbit secondary antibody. Negative control cell (top histogram).

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