

EIF4E

Rabbit Anti-Human Eukaryotic Translation Initiation Factor 4E Clone Poly6069 Affinity Purified pAb

Catalog No.	CSI12015 CSI12016	Quantity:	50 µl 200 µl
Alternate Names:	CBP, EIF4E1, EIF4EL1, EIF4F, MGC111573, eIF-4F 25 kDa subunit, eukaryotic translation initiation factor 4E-like 1, mRNA cap-binding protein		
Description:	eIF4E (also known as eukaryotic translation initiation factor 4E) is a 25 kD member of the eukaryotic initiation factor 4E family. This ubiquitously expressed cytoplasmic protein recognizes and binds 7-methylguanosine containing mRNA "CAP" during initiation of protein synthesis. eIF4E facilitates ribosome binding by inducing unwinding of mRNA secondary structures. Activity of this protein is inhibited by binding of 4E-BP and PRH; expression is increased by H ₂ O ₂ treatment. Activity can also be regulated by integrin α ₆ β ₄ ligation. Phosphorylation increases binding to mRNA CAPs and formation of eIF4F complex. eIF4E forms a trimeric complex with eIF4G, eIF4A (called eIF4F). Also associates with 4E-BP and PRH. The Poly6069 antibody has recognizes human eIF4E and has been shown to be useful for Western blotting.		
Gene ID:	1977		
Regulation:	Inhibited by binding of 4E-BP, PRH. Expression increased by H ₂ O ₂ treatment. Activity regulated by integrin α ₆ β ₄ ligation. Phosphorylation increases binding to mRNA CAPs and formation of eIF4F complex		
Distribution:	Cytoplasm, ubiquitously expressed		
Host:	Rabbit		
Immunogen:	Recombinant (partial), N-terminal		
Isotype:	Rabbit IgG		
Clone:	Poly6069		
Structure:	Eukaryotic initiation factor 4E family; 25 kD.		
Formulation:	This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Purification:	The antibody was purified by Protein A affinity chromatography.		
Function:	Recognizes and binds 7-methylguanosine containing mRNA "CAP" during initiation of protein synthesis. Facilitates ribosome binding by inducing unwinding of mRNA secondary structures.		



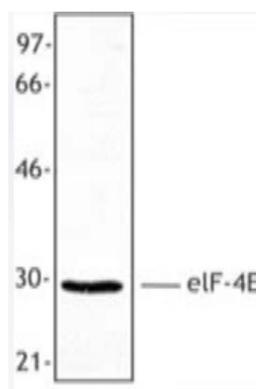
Reactivity: Human

Applications: Western Blot

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 μ l per 5 ml antibody dilution buffer for each mini-gel. It is recommended that the reagent be titrated for optimal performance for each application.

Storage & Stability: Upon receipt, store frozen at -20° C. **Avoid repeated freeze-thaw cycles.**

MCF-7 cell extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with rabbit anti-eIF4E antibody. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.



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