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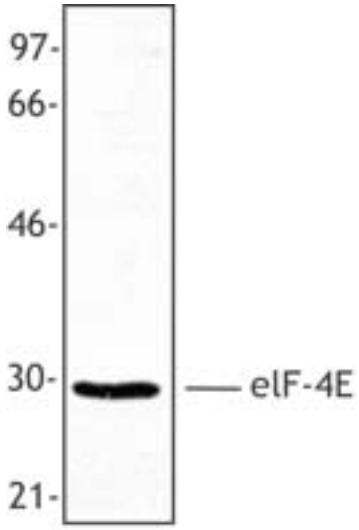
Product Data Sheet

Purified anti-eIF4E

Catalog # / Size: 606902 / 200 µl (20 Western blots)
Clone: Poly6069
Isotype: Rabbit IgG
Immunogen: Recombinant (partial), N-terminal
Reactivity: Human
Preparation: The antibody was purified by antigen-affinity chromatography.
Formulation: This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.
Concentration: Lot-specific (please contact technical support for concentration and total µg amount)
Storage: Upon receipt, store frozen at -20°C.



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

Applications:

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

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_2O_2 treatment. Activity can also be regulated by integrin $\alpha_6\beta_4$ 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.

Other Names: Eukaryotic translation initiation factor 4E

Antigen References:
1. Rychlik W, *et al.* 1987. *P. Natl. Acad. Sci. USA* 84:945.
2. Topisirovic I, *et al.* 2003. *EMBO J.* 22:689.
3. Shenberger J, *et al.* 2002. *Am. J. Respir. Cell Mol. Biol.* 27:250.

Related Products:

Product	Clone	Application
Purified anti-eIF2α	Poly6067	WB
Purified anti-eIF2γ	Poly6068	WB
HRP Donkey anti-rabbit IgG (minimal x-reactivity)	Poly4064	ELISA, IHC, WB

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