

**KD-Validated Anti-EEF2K Rabbit Polyclonal Antibody**  
**Rabbit polyclonal antibody**  
**Catalog # AGI1776****Specification**

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**KD-Validated Anti-EEF2K Rabbit Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O00418</a>
Reactivity	Rat, Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 82 kDa , observed , 105 kDa
Gene Name	EEF2K
Aliases	EEF2K; Eukaryotic Elongation Factor 2 Kinase; EEF-2K; CaMKIII; EEF-2 Kinase; EC 2.7.11.20; Calcium/Calmodulin-Dependent Eukaryotic Elongation Factor-2 Kinase; Calcium/Calmodulin-Dependent Eukaryotic Elongation Factor 2 Kinase; Calmodulin-Dependent Protein Kinase III; Eukaryotic Elongation Factor 2 Kinase; Elongation Factor-2 Kinase; Alternative Protein EEF2K; EC 2.7.11; HSU93850
Immunogen	A synthesized peptide derived from human EEF2K

**KD-Validated Anti-EEF2K Rabbit Polyclonal Antibody - Additional Information**

Gene ID	29904
<b>Other Names</b>	Eukaryotic elongation factor 2 kinase, eEF-2 kinase, eEF-2K, 2.7.11.20, Calcium/calmodulin-dependent eukaryotic elongation factor 2 kinase, EEF2K

**KD-Validated Anti-EEF2K Rabbit Polyclonal Antibody - Protein Information****Name** EEF2K**Function**

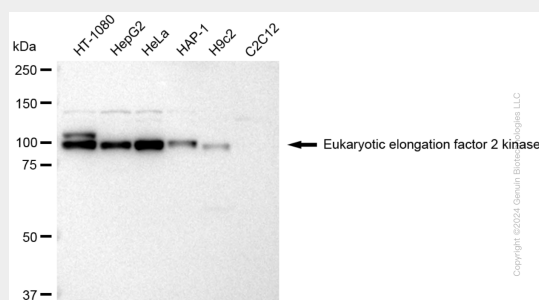
Threonine kinase that regulates protein synthesis by controlling the rate of peptide chain elongation. Upon activation by a variety of upstream kinases including AMPK or TRPM7, phosphorylates the elongation factor EEF2 at a single site, renders it unable to bind ribosomes and thus inactive. In turn, the rate of protein synthesis is reduced.

**KD-Validated Anti-EEF2K Rabbit Polyclonal Antibody - Protocols**

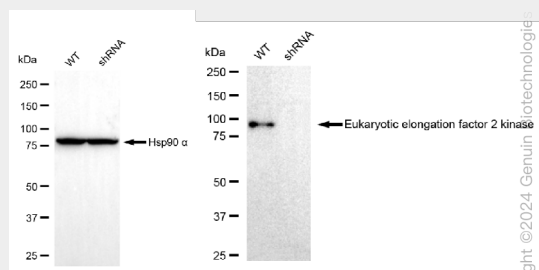
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## KD-Validated Anti-EEF2K Rabbit Polyclonal Antibody - Images



Western blotting analysis using anti-Eukaryotic elongation factor 2 kinase antibody (Cat#AGI1776). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Eukaryotic elongation factor 2 kinase antibody (Cat#AGI1776, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Eukaryotic elongation factor 2 kinase antibody (Cat#AGI1776). Eukaryotic elongation factor 2 kinase expression in wild type (WT) and Eukaryotic elongation factor 2 kinase shRNA knockdown (KD) HeLa cells with 30  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with anti-Eukaryotic elongation factor 2 kinase antibody (Cat#AGI1776, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.