

Nur für Forschungszwecke

# EIF2AK1 Polyklonaler Antikörper

Katalog-Nr.:20499-1-AP

Vorgestelltes Produkt

7 Publikationen



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 20499-1-AP	<b>GenBank-Zugangsnummer:</b> BC006524	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul , Konzentration: 550 µg/ml von Nanodrop;	<b>GeneID (NCBI):</b> 27102	<b>Empfohlene Verdünnungen:</b> WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:50-1:500
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> eukaryotic translation initiation factor 2-alpha kinase 1	
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 630 aa, 71 kDa	
<b>Immunogen Katalognummer:</b> AG14236	<b>Beobachtete Masse:</b> 71 kDa	

## Anwendungen

### Geprüfte Anwendungen:

IF, IHC, WB, ELISA

### In Publikationen genannte Anwendungen:

CoIP, IP, WB

### Getestete Reaktivität:

Human

### Zitierte Arten:

Human

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

WB : HeLa-Zellen, HEK-293-Zellen, HepG2-Zellen, K-562-Zellen, MCF-7-Zellen

IHC : humanes Mammakarzinomgewebe,

IF : HepG2-Zellen,

## Hintergrundinformationen

Eukaryotic initiation factor 2a (eIF2a), which is a critical component in the formation of the translation initiation ternary complex (eIF2a/GTP/methionyl transfer RNA), plays a key role in the ER stress response. EIF2AK1, which is activated by heme deficiency and other stimuli, is a major kinase that phosphorylates EIF2-alpha. Phosphorylation of the alpha subunit of EIF2 downregulates protein synthesis in response to various stress conditions. EIF2AK1 has some isoforms with 630aa, 577aa and 422aa.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Halime Kalkavan	36055199	Cell	WB,IP
Stefan Bauernfried	33243852	Science	WB
Jack Chun-Chieh Hsu	35316659	Mol Cell	WB

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

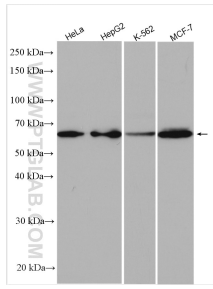
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

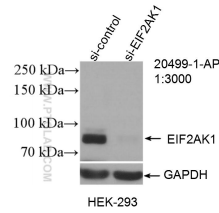
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

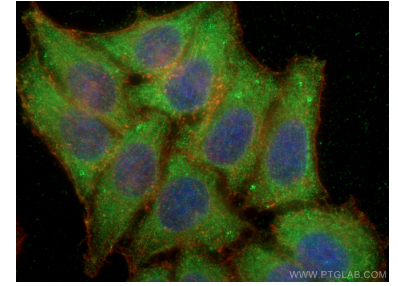
## Ausgewählte Validierungsdaten



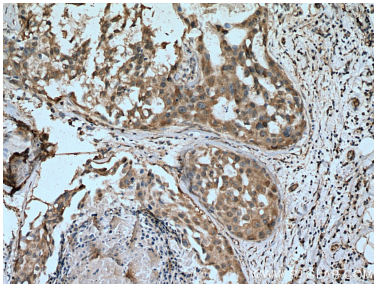
Various lysates were subjected to SDS PAGE followed by western blot with 20499-1-AP (EIF2AK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



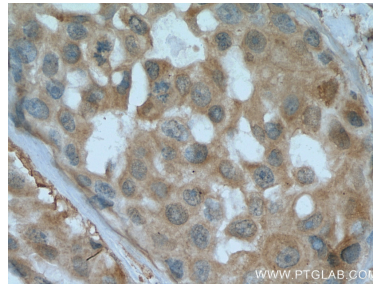
WB result of EIF2AK1 antibody (20499-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF2AK1 transfected HEK-293 cells.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using EIF2AK1 antibody (20499-1-AP) at dilution of 1:200 and Coralite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 20499-1-AP (EIF2AK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 20499-1-AP (EIF2AK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).