

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 13527-1-AP	<b>GenBank-Zugangsnummer:</b> BC032639	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul , Konzentration: 350 µg/ml von Nanodrop und 213 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> 9669	<b>Empfohlene Verdünnungen:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF 1:20-1:200
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> eukaryotic translation initiation factor 5B	
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 1220 aa, 139 kDa	
<b>Immunogen Katalognummer:</b> AG4404	<b>Beobachtete Masse:</b> 175 kDa	

## Anwendungen

<b>Geprüfte Anwendungen:</b> IF, IHC, WB, ELISA	<b>Positivkontrollen:</b> WB : Maushirngewebe, A549-Zellen IHC : humanes Gliomgewebe, IF : MCF-7-Zellen,
<b>In Publikationen genannte Anwendungen:</b> WB	
<b>Getestete Reaktivität:</b> Human, Maus, Ratte	
<b>Zitierte Arten:</b> Human	

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

## Hintergrundinformationen

Translation initiation requires the delivery of the initiator methionine tRNA to the 40S ribosomal subunit. The initiator methionine tRNA is delivered by the heterotrimeric complex EIF2 in a ternary complex with GTP that interacts with the 40S subunit. The resulting complex then binds to an mRNA and scans for the AUG start codon. Eukaryotic translation initiation factor 5B (EIF5B) plays a role in recognition of the AUG codon in conjunction with translation factor eIF2, which functions to general translation initiation by promoting the binding of the formylmethionine-tRNA to ribosomes, and promotes joining of the 60S ribosomal subunit. A single crossreactive polypeptide of 175 kDa was detected, whereas the predicted size of the protein was 139 kDa. This size discrepancy may be the result of posttranslational modifications of EIF5B or, perhaps more likely, of unusual behavior in SDS-PAGE caused by the highly charged N-terminal region of EIF5B (PMID: 10200264).

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Eunah Kim	30019215	Cell Mol Life Sci	WB
Xu Jiang	27959964	PLoS One	WB
Yuanhui Mao	36824937	bioRxiv	WB

## Lagerung

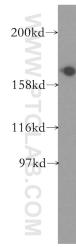
**Lagerungsbedingungen:**  
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil  
**Lagerungspuffer:**  
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.  
Aliquotieren ist nicht notwendig bei -20°C Lagerung

**\*\*\* 20ul-Größen enthalten 0.1% BSA**

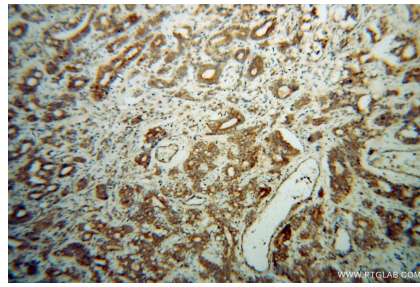
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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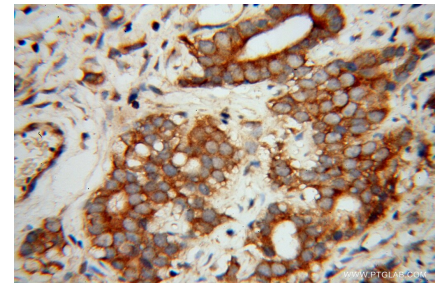
## Ausgewählte Validierungsdaten



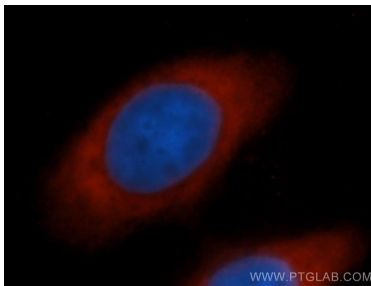
mouse brain tissue were subjected to SDS PAGE followed by western blot with 13527-1-AP (EIF5B antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas using 13527-1-AP (EIF5B antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human gliomas using 13527-1-AP (EIF5B antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of MCF-7 cells, using EIF5B antibody 13527-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).