

## Allgemeine Informationen

Katalog-Nr.:  
20984-1-AP

Größe:  
150ul, Konzentration: 500 µg/ml von  
Nanodrop;

Wirt:  
Kaninchen

Isotyp:  
IgG

GenBank-Zugangsnummer:  
NML\_020761

GeneID (NCBI):  
57521

Vollständiger Name:  
raptor

Berechnete Masse:  
149 kDa

Beobachtete Masse:  
130-150 kDa

Reinigungsmethode:

Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:

WB 1:500-1:1000

IP 0.5-4.0 µg für IP und 1:500-1:2000  
für WB

IF 1:50-1:500

## Anwendungen

Geprüfte Anwendungen:

IF, IP, WB, ELISA

In Publikationen genannte Anwendungen:

IF, IHC, IP, PLA, WB

Getestete Reaktivität:

Human, Maus

Zitierte Arten:

Human, Kaninchen, Maus, Ratte

Positivkontrollen:

WB: HEK-293-Zellen, HepG2-Zellen, Maushirngewebe

IP: HeLa-Zellen,

IF: HeLa-Zellen,

## Hintergrundinformationen

RPTOR, also named as KIAA1303 and RAPTOR belongs to the WD repeat RAPTOR family. It is involved in the control of the mammalian target of rapamycin complex 1 (mTORC1) activity which regulates cell growth and survival, and autophagy in response to nutrient and hormonal signals; functions as a scaffold for recruiting mTORC1 substrates. mTORC1 is activated in response to growth factors or amino-acids. Amino-acid-signaling to mTORC1 is mediated by Rag GTPases, which cause amino-acid-induced relocalization of mTOR within the endomembrane system. Activated mTORC1 up-regulates protein synthesis by phosphorylating key regulators of mRNA translation and ribosome synthesis. mTORC1 phosphorylates EIF4EBP1 and releases it from inhibiting the elongation initiation factor 4E (eIF4E). mTORC1 phosphorylates and activates S6K1 at 'Thr-389', which then promotes protein synthesis by phosphorylating PDCD4 and targeting it for degradation. The antibody is specific to RPTOR.

## Bemerkenswerte Veröffentlichungen

| Verfasser        | Pubmed ID | Journal                  | Anwendung |
|------------------|-----------|--------------------------|-----------|
| Shun-Yuan Li     | 31545482  | Int J Mol Med            | WB        |
| Peter Gollwitzer | 36097072  | Nat Cell Biol            | WB        |
| Ziru Li          | 25157160  | Proc Natl Acad Sci U S A | WB, IP    |

## 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

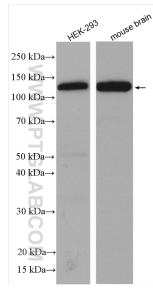
For technical support and original validation data for this product please contact:

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

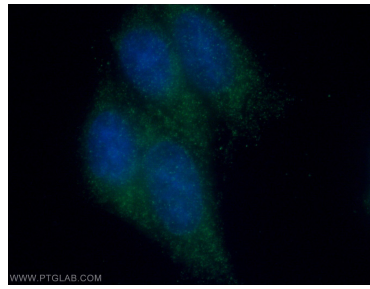
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

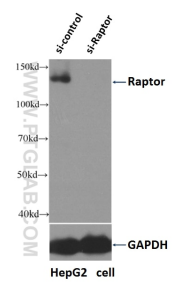
## Ausgewählte Validierungsdaten



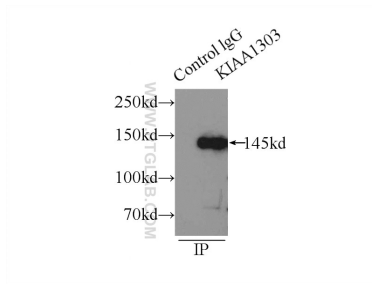
Various lysates were subjected to SDS PAGE followed by western blot with 20984-1-AP (Raptor antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 20984-1-AP (Raptor antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of Raptor antibody (20984-1-AP, 1:500) with si-control and si-Raptor transfected HepG2 cells.



IP Result of anti-Raptor (IP:20984-1-AP, 4ug; Detection:20984-1-AP 1:1000) with HeLa cells lysate 1505ug.