



Product datasheet

Anti-CKAP1/TBCB antibody ab237483

4 Images

Overview

Product name	Anti-CKAP1/TBCB antibody
Description	Rabbit polyclonal to CKAP1/TBCB
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	<p>Recombinant full length protein corresponding to Human CKAP1/TBCB aa 1-244. Sequence:</p> <pre>MEVTGVSAPTVTVFISSSLNTRSEKRYRSRLTIAEFKCKL ELLVGSPAS CMELELYGVDDKFKYKLDQEDALLGSYPVDDGCRIHVIDH SGARLGEYED VSRVEKYTISQEAYDQRQDTVRSFLKRSKLGRYNEEERAQ QEAEAAQRLA EKAQASSIPVGSRCVRAAGQSPRRGTVMYVGLTDFKP GYWIGVRYDEP LGKNDGSVNGKRYFECQAKYGAFVKPAVVTVGDFPEED YGLDEI</pre> <p>Database link: Q99426-1</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	WB: HeLa, A431, A549 and Jurkat whole cell lysate; Mouse thymus tissue lysate. IHC-P: Human kidney tissue ICC/IF: HeLa cells. IP: HeLa whole cell lysate.
General notes	<p>This product was previously labelled as CKAP1</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p>

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituents: 50% Glycerol (glycerin, glycerine), PBS, 0.03% Proclin 300
Purity	Protein G purified
Purification notes	Purity >95%
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab237483** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/5000.
IP		1/200 - 1/2000.
IHC-P		1/20 - 1/200.
ICC/IF		1/50 - 1/200.

Target

Function	Binds to alpha-tubulin folding intermediates after their interaction with cytosolic chaperonin in the pathway leading from newly synthesized tubulin to properly folded heterodimer. Involved in regulation of tubulin heterodimer dissociation. May function as a negative regulator of axonal growth.
Tissue specificity	Found in most tissues.

Sequence similarities

Belongs to the TBCB family.
Contains 1 CAP-Gly domain.

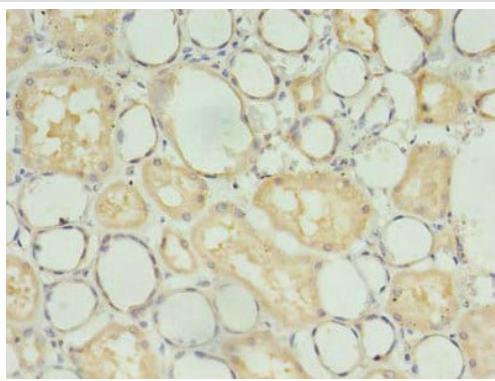
Post-translational modifications

Phosphorylation by PAK1 is required for normal function. Phosphorylated upon DNA damage, probably by ATM or ATR.
Ubiquitinated in the presence of GAN which targets it for degradation by the proteasome.

Cellular localization

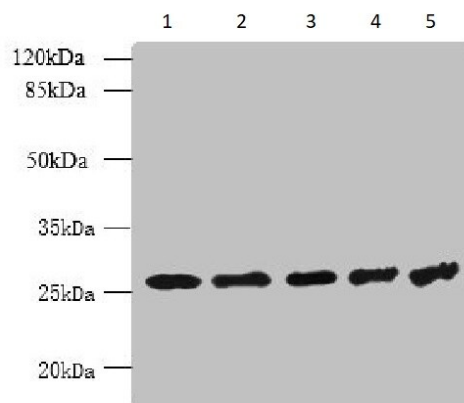
Cytoplasm. Cytoplasm > cytoskeleton. Colocalizes with microtubules. In differentiated neurons, located in the cytoplasm. In differentiating neurons, accumulates at the growth cone.

Images



Paraffin-embedded human kidney tissue stained for CKAP1/TBCB with ab237483 at a 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CKAP1/TBCB antibody (ab237483)



Western blot - Anti-CKAP1/TBCB antibody (ab237483)

All lanes : Anti-CKAP1/TBCB antibody (ab237483) at 1/1000 dilution

Lane 1 : HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : A431 (Human epidermoid carcinoma cell line) whole cell lysate

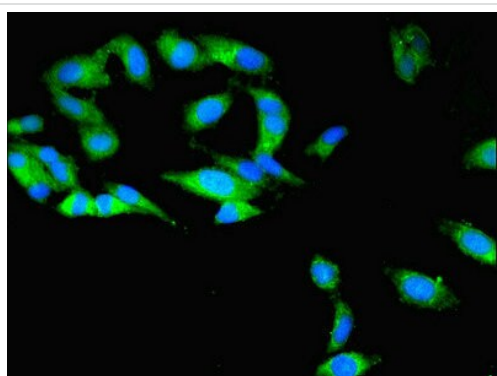
Lane 3 : Mouse thymus tissue lysate

Lane 4 : A549 (Human lung carcinoma cell line) whole cell lysate

Lane 5 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

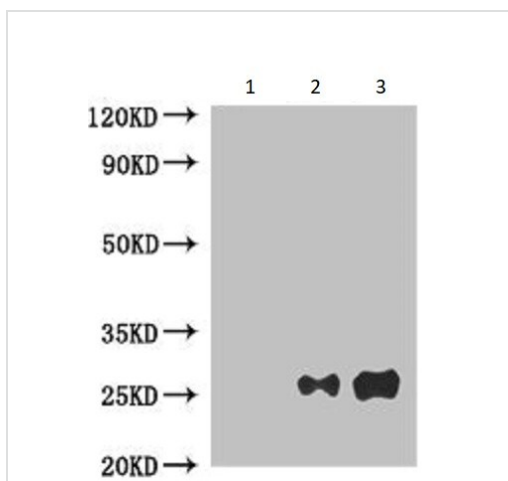
Secondary

All lanes : Goat polyclonal to Rabbit IgG at 1/10000 dilution



Immunocytochemistry/ Immunofluorescence - Anti-CKAP1/TBCB antibody (ab237483)

HeLa (Human epithelial cell line from cervix adenocarcinoma) cells stained for CKAP1/TBCB (Green) using ab237483 at a 1/100 dilution in ICC/IF. Secondary used is an Alexa-Fluor[®]488-conjugated Goat Anti-Rabbit IgG (H+L).



Immunoprecipitation - Anti-CKAP1/TBCB antibody (ab237483)

CKAP1/TBCB was immunoprecipitated from HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate using 4 µg of ab237483.

Lane 1: Rabbit control IgG (1 µg) in HeLa whole cell lysate.

Lane 2: ab237483 (4 µg) in HeLa whole cell lysate.

Lane 3: HeLa whole cell lysate (20 µg input).

For western blotting, an HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody at a 1/50,000 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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