

Datasheet: VMA00026

BATCH NUMBER 166317

Description:	RAT ANTI CCT BETA
Specificity:	CCT BETA
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	PK/8/4/4i/2F
Isotype:	IgG2b
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Rat, Mouse, Bovine, Chicken, Sheep, Dog, Rabbit, Hamster, Pig, Monkey
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Rat monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant.

Buffer Solution

Phosphate buffered saline.

Preservative

0.09% Sodium Azide (NaN₃).

Stabilisers

Approx. Protein Concentrations IgG concentration 0.5 mg/ml

Immunogen Mouse CCT beta peptide conjugated to purified tuberculin protein derivative

External Database Links

UniProt:

[P78371](#) [Related reagents](#)

Entrez Gene:

[10576](#) CCT2 [Related reagents](#)

Synonyms 99D8.1, CCTB

Specificity

Rat anti Human CCT beta antibody, clone PK/8/4/4i/2F recognizes human T-complex protein 1 subunit beta, also known as CCT beta, CCT2 or TCP-1-beta. CCT beta is a 535 amino acid cytoplasmically expressed chaperonin molecule involved in protein folding and has been shown to be involved in actin interaction ([Llorca *et al.* 1999](#)). Two isoforms of CCT beta have been described, arising from alternative splicing. It is not clear whether this Rat anti Human CCT beta antibody recognizes the shorter isoform 2, lacking the N-terminal 47 amino acids seen in isoform 1.

Rat anti Human CCT beta antibody recognizes CCT beta as a single band of ~ 57 kDa in multiple human cell line lysates by western blotting under reducing conditions and is cross reactive with both mouse and rat cell line lysates.

Western Blotting Anti CCT beta antibody detects a band of approximately 57 kDa in Jurkat cell lysates.

References

1. Satish, L. *et al.* (2010) Cloning and expression of rabbit CCT subunits eta and beta in healing cutaneous wounds. [Cell Stress Chaperones. 15 \(6\): 819-26.](#)
 2. Fislová, T. *et al.* (2010) Association of the influenza virus RNA polymerase subunit PB2 with the host chaperonin CCT. [J Virol. 84 \(17\): 8691-9.](#)
 3. Satish, L. *et al.* (2010) Chaperonin containing T-complex polypeptide subunit eta (CCT-eta) is a specific regulator of fibroblast motility and contractility. [PLoS One. 5 \(4\): e10063.](#)
 4. Plimpton, R.L. *et al.* (2015) Structures of the G β -CCT and PhLP1-G β -CCT complexes reveal a mechanism for G-protein β -subunit folding and G $\beta\gamma$ dimer assembly. [Proc Natl Acad Sci U S A. 112 \(8\): 2413-8.](#)
 5. Satish, L. *et al.* (2011) Chaperonin containing T-complex polypeptide (CCT) subunit expression in oral mucosal wounds and fibroblasts. [Cell Stress Chaperones. 16 \(6\): 675-80.](#)
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Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee 12 months from date of despatch.

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00026>
Antibody (10040)

Regulatory For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR72...) [HRP](#)

Recommended Negative Controls

[RAT IgG2b NEGATIVE CONTROL \(MCA6006GA\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M407267:221006'

Printed on 19 Jan 2024

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