

Datasheet: MCA2179

Description:	RAT ANTI CCT ETA
Specificity:	CCT ETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PK/16/8/a
Isotype:	IgG2a
Quantity:	0.1 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			1/100
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/500

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.

Species Cross Reactivity	Reacts with: Mouse, Human, Bovine, Rabbit N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

**External Database
Links**

UniProt:

[Q2NKZ1](#) [Related reagents](#)

Entrez Gene:

[514355](#) CCT7 [Related reagents](#)

Specificity

Rat anti CCTeta antibody, clone PK/16/8/a recognizes the eta polypeptide of the CCT chaperonin molecule complex. CCT η is a 543 amino acid ~60 kDa molecule encoded by the CCT7 gene, a member of the TCP-1 chaperonin family ([UniProt: Q2NKZ1](#))

The intact CCT complex is composed of eight polypeptides in a double-ring structure. CCT is important within cells in aiding the folding of proteins including actin, tubulin and the VHL tumour suppressor protein.

Rat anti CCTeta antibody, clone PK/16/8/a detects a band of ~60 kDa in HeLa cell lysates using western blotting under reducing conditions.

**Histology Positive
Control Tissue**

Human prostate.

Western Blotting

MCA2179 detects a band of approximately 60kD in Hela 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. Hynes, G. *et al.* (1996) Analysis of chaperonin-containing TCP-1 subunits in the human keratinocyte two-dimensional protein database: further characterisation of antibodies to individual subunits. [Electrophoresis. 17 \(11\): 1720-7.](#)
3. Hynes, G.M. & Willison, K.R. (2000) Individual subunits of the eukaryotic cytosolic chaperonin mediate interactions with binding sites located on subdomains of beta-actin. [J Biol Chem. 275 \(25\): 18985-94.](#)
4. 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.](#)
5. Satish L *et al.* (2013) Increased CCT-eta expression is a marker of latent and active disease and a modulator of fibroblast contractility in Dupuytren's contracture. [Cell Stress Chaperones. 18 \(4\): 397-404.](#)

Further Reading

1. Llorca, O. *et al.* (2000) Eukaryotic chaperonin CCT stabilizes actin and tubulin folding intermediates in open quasi-native conformations. [EMBO J. 19 \(22\): 5971-9.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

North & South Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: 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

'M315524:180503'

Printed on 11 May 2018
