

Datasheet: MCA2179

BATCH NUMBER 150117

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. 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

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](#)

RRID AB_324836

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. 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.](#)
4. 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.](#)
5. 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.](#)

6. 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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2179>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight@550 , DyLight@650 , DyLight@800
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR16...)	DyLight@800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

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