

Datasheet: MCA2180

Description:	RAT ANTI CCT THETA
Specificity:	CCT THETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	PK/13/72/8k
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			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1/250 - 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.

Species Cross Reactivity

Reacts with: Mouse, Rabbit, Human, Bovine

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

0.09% sodium azide (NaN₃)

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

External Database Links

UniProt:

[Q3ZCI9](#) [Related reagents](#)

Entrez Gene:

[281047](#) CCT8 [Related reagents](#)

RRID AB_2228910

Specificity **Rat anti CCT theta antibody, clone PK/13/72/8k** recognizes the theta polypeptide of the CCT chaperonin molecule complex, also known as T-complex protein 1 subunit theta, CCT8 or CCT θ , a 547 amino acid ~:60 kDa molecular chaperone.

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 tumor suppressor protein.

Western Blotting Rat anti CCT antibody, clone PK/13/72/8k detects a band of approximately 60 kDa in lysates of heat shocked Hela cells

References

1. 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.](#)
 2. 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.](#)
 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. 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. Slater, L.H. *et al.* (2013) CCT chaperonin complex is required for efficient delivery of anthrax toxin into the cytosol of host cells. [Proc Natl Acad Sci U S A. 110 \(24\): 9932-7.](#)
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Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 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>

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 (STAR131...)	Alk. Phos. , Biotin
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

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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
'M413176:221120'

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