Synaptic Systems

Rudolf-Wissell-Str. 28
37079 Göttingen, Germany
Phone: +49 551-50556-0
Fax: +49 551-50556-384
E-mail: sales@sysy.com
Web: www.sysy.com

CtBP 1

Cat.No. 222-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 414 to 430 from rat CtBP1 (UniProt Id: Q9Z2F5)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	222 002
Remarks	This control peptide consists of the synthetic peptide (aa 414-430 in rat CtBP 1) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

CtBP 1 and its close relative CtBP 2 interact with various transcription factors through a PLDLSL motif enhancing transcriptional repression. While CtBP 2 shows a restricted expression pattern CtBP 1 is abundantly expressed in the retina and the brain, where it locates to the nucleus and synaptic nerve terminals.

Selected General References

Loss of full length CtBP1 expression enhances the invasive potential of human melanoma.
Winklmeier A, Poser I, Hoek KS, Bosserhoff AK
BMC cancer (2009) 9: 52.

Role of the PLDLS-binding cleft region of CtBP1 in recruitment of core and auxiliary components of the corepressor complex.
Kuppuswamy M, Vijayalingam S, Zhao LJ, Zhou Y, Subramanian T, Ryerse J, Chinnadurai G
Molecular and cellular biology (2008) 28(1): 269-81.

The multiple activities of CtBP/BARS proteins: the Golgi view.
Corda D, Colanzi A, Luini A
Trends in cell biology (2006) 16(3): 167-73.

A novel C-terminal binding protein (CTBP2) is closely related to CTBP1, an adenovirus E1A-binding protein, and maps to human chromosome 21q21.3.
Katsanis N, Fisher EM
Genomics (1998) 47(2): 294-9.