

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

Ribeye B-domain

Cat.No. 192 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 μg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 μ l H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1: 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: 1: 10000 IHC-P/FFPE: yes
Immunogen	Synthetic peptide corresponding to AA 974 to 988 from rat Ribeye (UniProt Id: Q9EQH5-2)
Reactivity	Reacts with: human (P56545-2), rat (Q9EQH5), mouse (P56546-2), monkey, cow. Other species not tested yet.
Specificity	This antibody recognizes ribeye and CtBP 2 (cat. no. 193 003).
Remarks	The immunogen is identical to that of anti-CtBP 2 (cat. no. 193 003).

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

The photoreceptor ribbon synapse is a unique type of synapse specialized for the tonic release of neurotransmitter in the dark. **Ribeye** is a self-aggregating protein and is one of the major scaffolding components of the ribbon on which the neurotransmitter containing vesicles are tethered. The protein consists of a unique A-domain and a B-domain. With the exception of the first 20 amino acids the B-domain is identical to the transcriptional corepressor CtBP 2. Both proteins originate from the same gene.

Selected References SYSY Antibodies

Cytomatrix proteins CAST and ELKS regulate retinal photoreceptor development and maintenance.

Hagiwara A, Kitahara Y, Grabner CP, Vogl C, Abe M, Kitta R, Ohta K, Nakamura K, Sakimura K, Moser T, Nishi A, et al.

The Journal of cell biology (2018):. WB, IHC; tested species: mouse

Loss of XBP1 accelerates age-related decline in retinal function and neurodegeneration.

McLaughlin T, Falkowski M, Park JW, Keegan S, Elliott M, Wang JJ, Zhang SX

Molecular neurodegeneration (2018) 13(1): 16. IHC; tested species: mouse

Dopamine D1 receptor expression is bipolar cell type-specific in the mouse retina.

Farshi P. Fvk-Kolodziei B. Krolewski DM. Walker PD. Ichinose T

The Journal of comparative neurology (2016) 524(10): 2059-79. IHC; tested species: mouse

A new probe for super-resolution imaging of membranes elucidates trafficking pathways.

Revelo NH, Kamin D, Truckenbrodt S, Wong AB, Reuter-Jessen K, Reisinger E, Moser T, Rizzoli SO

The Journal of cell biology (2014) 205(4): 591-606. IHC

LKB1 and AMPK regulate synaptic remodeling in old age.

Samuel MA, Voinescu PE, Lilley BN, de Cabo R, Foretz M, Viollet B, Pawlyk B, Sandberg MA, Vavvas DG, Sanes JR

Nature neuroscience (2014) 17(9): 1190-7. IHC; tested species: mouse

Selected General References

Mechanisms directing the nuclear localization of the CtBP family proteins.

Verger A, Quinlan KG, Crofts LA, Spanò S, Corda D, Kable EP, Braet F, Crossley M

Molecular and cellular biology (2006) 26(13): 4882-94.

Few CaV1.3 channels regulate the exocytosis of a synaptic vesicle at the hair cell ribbon synapse.

Brandt A, Khimich D, Moser T

The Journal of neuroscience: the official journal of the Society for Neuroscience (2005) 25(50): 11577-85.

Molecular dissection of the photoreceptor ribbon synapse: physical interaction of Bassoon and RIBEYE is essential for the assembly of the ribbon complex.

tom Dieck S, Altrock WD, Kessels MM, Qualmann B, Regus H, Brauner D, Fejtová A, Bracko O, Gundelfinger ED, Brandstätter JH The Journal of cell biology (2005) 168(5): 825-36.

RIBEYE, a component of synaptic ribbons: a protein's journey through evolution provides insight into synaptic ribbon function. Schmitz F. Königstorfer A. Südhof TC

Neuron (2000) 28(3): 857-72.

Identification of CtBP1 and CtBP2 as corepressors of zinc finger-homeodomain factor deltaEF1.

Furusawa T, Moribe H, Kondoh H, Higashi Y

Molecular and cellular biology (1999) 19(12): 8581-90.