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- Expressversand

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Datasheet for 100-401-135

Carboxypeptidase Y Antibody

Overview

Description:	Anti-Carboxypeptidase Y (RABBIT) Antibody - 100-401-135
Item No.:	100-401-135
Size:	2 mL
Applications:	WB, Cellular Assay
Reactivity:	<i>S. cerevisiae</i>
Host Species:	Rabbit

Product Details

Background:	Carboxypeptidase Y is involved in degradation of small peptides. It digests preferentially peptides containing an aliphatic or hydrophobic residue in P1' position, as well as methionine, leucine or phenylalanine in P1 position of ester substrate. Carboxypeptidase that catalyzes the release of a C-terminal amino acid with broad specificity. It is inhibited by ZPCK.
Synonyms:	rabbit anti-Carboxypeptidase Y antibody, Carboxypeptidase YSCY antibody, CPY1 antibody, LBC1 antibody, PRC1 antibody, Vacuolar carboxypeptidase Y antibody, YMR297W antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	PRC1
Reactivity:	<i>S. cerevisiae</i>
Immunogen Type:	Native Protein
Immunogen:	Carboxypeptidase Y [Baker's Yeast]

Purity/Specificity: This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Carboxypeptidase Y [Baker's Yeast]. Cross reactivity against Carboxypeptidase Y from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P00729](#)
- [NCBI - NP_014026.1](#)
- [GeneID - 855343](#)

Application Details

Tested Applications: WB

Suggested Applications: Cellular Assay (Based on references)

Application Note: Anti-Carboxypeptidase Y has been tested by western blot and is suitable to be assayed against 1.0 µg of Carboxypeptidase Y [Baker's Yeast] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenzothiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:3,000 of the reconstitution concentration is suggested for this product.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:5,000 - 1:25,000

WB: 1:500 - 1:3,000

Formulation

Physical State: Lyophilized

Concentration: 90 mg/mL by Refractometry

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

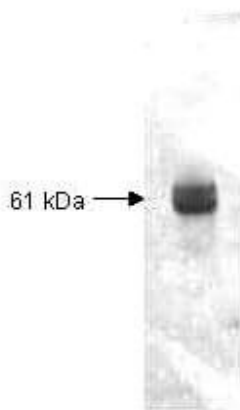
Reconstitution Volume: 2.0 mL

Reconstitution Buffer: Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Both the antiserum and IgG fractions of anti-Carboxypeptidase Y (Baker's Yeast) are shown to detect under reducing conditions of SDS-PAGE the 61,000 dalton enzyme in cellular extracts. Approximately 10 µg of total protein is loaded per lane. A 1:5,000 dilution of the primary antibody is used followed by detection using HRP Goat-a-Rabbit IgG [H&L] (611-1302) diluted 1:4,000 and color development using 4-CN substrate until sufficient color develops. Other detection systems will yield similar results.

References

- Ohashi, Y. et al. Membrane delivery to the yeast autophagosome from the Golgi-endosomal system. *Molecular Biology of the Cell* (2010)

Disclaimer

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