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Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody
Carboxypeptidase Y Antibody
Catalog # ASR3652

Specification

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Saccharomyces cerevisiae**
Reactivity	**Saccharomyces cerevisiae**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
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-ethylbenthiazoline-6-sulfon ic 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.**
Physical State	**Lyophilized**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Carboxypeptidase Y [Baker's Yeast]**
Reconstitution Volume	**2.0 mL**
Reconstitution Buffer	**Restore with deionized water (or equivalent)**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody - Additional Information

Gene ID 855343

Other Names
855343

Purity
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.

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.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody - Protein Information

Name PRC1 {ECO:0000303|PubMed:3028649}

Function
Vacuolar serine-type carboxypeptidase involved in degradation of small peptides (PubMed:8679540). 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 (PubMed:8679540). Also plays a role in breakdown of the autophagic body and the autophagosome-dependent protein synthesis (PubMed:29514932). Plays a key role in phytochelatin (PC) synthesis from glutathione (GSH) by cleaving the Gly from GSH and form the PC- peptides of the structure (gamma-Glu-Cys)2-Gly (PubMed:17408619). Also involved in resistance to xenobiotics via the degradation of glutathione-S-conjugates (PubMed:19897216).

Cellular Location
Vacuole lumen. Note=The vacuolar sorting receptor VPS10 is required for the delivery of ATG42 to the vacuole lumen.

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody - Images

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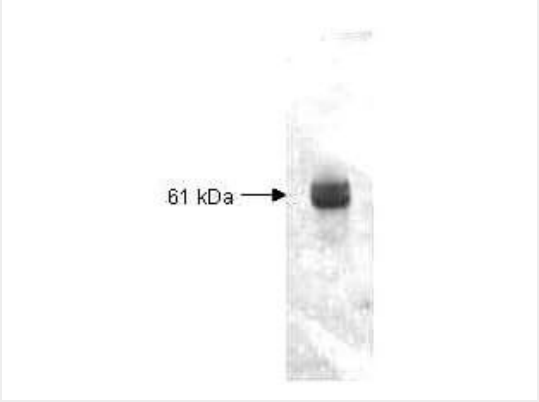

Both the antiserum and IgG fractions of anti-Carboxypeptidase Y (Baker's Yeast) are shown to detect under reducing conditions of SDS-PAGE the 61,000 dalton enzyme in cellular extracts. Approximately 10 µg of total protein is loaded per lane. A 1:5,000 dilution of the primary antibody is used followed 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.

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody - 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.