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Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody
Carboxypeptidase Y Antibody
Catalog # ASR4367

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	**Carboxypeptidase Y Antibody has been tested by ELISA and western blot and is 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-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:10,000 to 1:42,000 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	**100 µL**
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
Anti-Carboxypeptidase Y is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum as well as 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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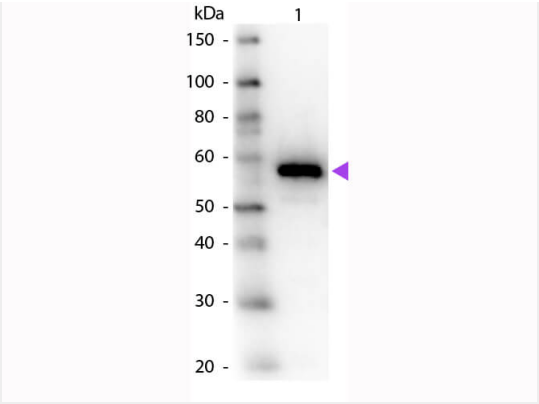

Western Blot of Rabbit anti-Carboxypeptidase Y Antibody. Lane 1: Carboxypeptidase Y. Load: 50 ng per lane. Primary antibody: Carboxypeptidase Y primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 53 kDa, 57 kDa for Carboxypeptidase Y. Other band(s): None.

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.