

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody Peroxidase Conjugated

Carboxypeptidase Y Antibody Peroxidase Conjugated Catalog # ASR4513

Specification

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody Peroxidase Conjugated - Product Information

Host Conjugate Target Species Reactivity Clonality Application Application Note

Physical State Buffer

Immunogen Reconstitution Volume Reconstitution Buffer

Stabilizer

Preservative

Rabbit

Peroxidase (Horseradish) Saccharomyces cerevisiae Saccharomyces cerevisiae

Polyclonal WB, IHC, E, I, LCI

Anti-Carboxypeptidase Y Peroxidase 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 capture ELISA using ABTS (2,2'-az ino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is

suggested for this product.

Lyophilized

0.02 M Potassium Phosphate, 0.15 M

Sodium Chloride, pH 7.2

Carboxypeptidase Y [Baker's Yeast]

100 μL

Restore with deionized water (or

equivalent)

10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

0.01% (w/v) Gentamicin Sulfate. Do NOT

add Sodium Azide!

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody Peroxidase Conjugated - Additional Information

Gene ID 855343

Other Names 855343

Purity

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-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Carboxypeptidase Y [Baker's Yeast]. Cross



reactivity against Carboxypeptidase Y from other sources may occur but has 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 Peroxidase Conjugated - 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 Peroxidase Conjugated - Protocols

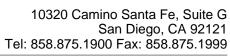
Provided below are standard protocols that you may find useful for product applications.

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

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody Peroxidase Conjugated - Images

Anti-CARBOXYPEPTIDASE Y (RABBIT) Antibody Peroxidase Conjugated - Background

Carboxypeptidase Y is an enzyme that catalyzes the reaction of the release of a C-terminal amino acid with broad specificity. Carboxypeptidase Y is a carboxypeptidase with optimum activity at pH





4.5-6.0. It is inhibited by diisopropyl fluorophosphate.