

## **COPZ2 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55366

## **Product Information**

**Application** WB, IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat, Bovine
Host
Rabbit
Clonality
Polyclonal
Calculated MW
Physical State
Liquid

**Immunogen** KLH conjugated synthetic peptide derived from human COPZ2

Epitope Specificity 151-210/210

**Isotype** IgG

**Purity** affinity purified by Protein A

**Buffer** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION

Cytoplasm. Golgi apparatus membrane; Peripheral membrane protein;
Cytoplasmic side. Cytoplasmic vesicle; COPI-coated vesicle membrane;
Peripheral membrane protein; Cytoplasmic side. Note: The coatomer is
cytoplasmic or polymerized on the cytoplasmic side of the Golgi, as well as on

the vesicles/buds originating from it.

**Important Note** This product as supplied is intended for research use only, not for use in

human, therapeutic or diagnostic applications.

**Background Descriptions** This gene encodes a subunit of the coatomer protein complex, a

seven-subunit complex that functions in the formation of COPI-type, non-clathrin-coated vesicles. COPI vesicles function in the retrograde Golgi-to-ER transport of dilysine-tagged proteins. This gene is similar to a related family member, and the two encoded proteins form distinct isotypes

of the coatomer protein complex. [provided by RefSeg, Jul 2008]

## **Additional Information**

**Gene ID** 51226

Other Names Coatomer subunit zeta-2, Zeta-2-coat protein, Zeta-2 COP, COPZ2

**Dilution** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-50

0,ELISA=1:5000-10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

**Storage** Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

## **Protein Information**

COP72 Name

**Function** The coatomer is a cytosolic protein complex that binds to dilysine motifs and

> reversibly associates with Golgi non-clathrin- coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. The zeta subunit may be involved in regulating the coat assembly and, hence, the rate of biosynthetic protein transport due to its

association-dissociation properties with the coatomer complex.

**Cellular Location** Cytoplasm. Endoplasmic reticulum- Golgi intermediate compartment

membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic vesicle, COPI-coated vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Note=The coatomer is cytoplasmic or polymerized on the cytoplasmic side of the Golgi, as well as on the vesicles/buds originating from it. Shows a significant preference for ERGIC and cis-Golgi apparatus compared with trans-Golgi network.

**Images** 

Tissue/cell: human laryngocarcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min;

Unconjugated(AP55366) 1:400, overnight at 4°C, followed

Incubation: Anti-COPZ2 Polyclonal Antibody, by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

