abcam

Product datasheet

Anti-Coatomer subunit delta/COPD antibody ab81651

2 Images

Overview

Product name	Anti-Coatomer subunit delta/COPD antibody
Description	Rabbit polyclonal to Coatomer subunit delta/COPD
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Zebrafish
Immunogen	Synthetic peptide corresponding to a region within internal ammino acids 289-338 (RDGGLQNMELHGMIMLRISDDKYGRIRLHVENEDKKGVQLQTHPNVDKK L) of human Coatomer subunit delta (NP_001646).
Positive control	HepG2 cell lysate. IF/ICC: HeLa cell line.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab81651 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

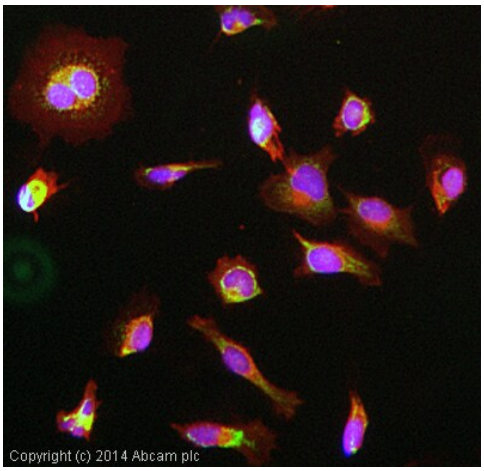
Application	Abreviews	Notes

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 58 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.
ICC/IF		Use a concentration of 5 µg/ml.

Target

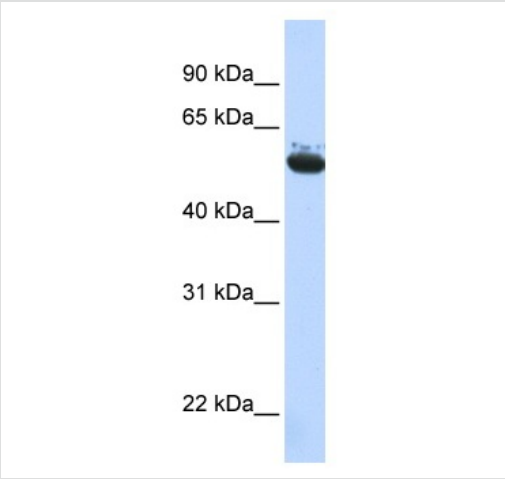
Function	The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors.
Tissue specificity	Ubiquitously expressed.
Sequence similarities	Belongs to the adaptor complexes medium subunit family. Delta-COP subfamily. Contains 1 MHD (mu homology) domain.
Cellular localization	Cytoplasm. Golgi apparatus membrane. Cytoplasmic vesicle > COPI-coated vesicle membrane. The coatomer is cytoplasmic or polymerized on the cytoplasmic side of the Golgi, as well as on the vesicles/buds originating from it.

Images



Immunocytochemistry/ Immunofluorescence - Anti-Coatomer subunit delta antibody (ab81651)

ab81651 stained HeLa cells. The cells were 100% methanol fixed for 5 minutes at -20°C and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1hour at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab81651 at 5µg/ml) overnight at +4°C. The secondary antibody (pseudo-colored green) was Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed (**ab150081**) used at a 1/1000 dilution for 1hour at room temperature. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1hour at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.



Western blot - Anti-Coatomer subunit delta antibody (ab81651)

Anti-Coatomer subunit delta/COPD antibody (ab81651) at 1 µg/ml + HepG2 cell lysate at 10 µg

Secondary

HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 58 kDa

Observed band size: 58 kDa

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