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Datasheet for ABIN673680  
**anti-AP2A2 antibody (AA 21-150) (Cy7)**

### Overview

Quantity:	100 µL
Target:	AP2A2
Binding Specificity:	AA 21-150
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AP2A2 antibody is conjugated to Cy7
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human AP2A2
Isotype:	IgG
Specificity:	Based on the similarity among the Alpha2-Adaptin proteins, this antibody will bind both AP2A1 and AP2A2.
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Cow,Horse,Rabbit
Purification:	Purified by Protein A.

## Target Details

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Target: AP2A2

Alternative Name: alpha2 Adaptin ([AP2A2 Products](#))

Background: Synonyms: AP-2 complex subunit alpha-2, 100 kDa coated vesicle protein C, Adaptor protein complex AP-2 subunit alpha-2, Adaptor-related protein complex 2 subunit alpha-2, Alpha-adaptin C, Alpha2-adaptin, Clathrin assembly protein complex 2 alpha-C large chain, Huntingtin yeast partner J, Huntingtin-interacting protein 9, HIP-9, Huntingtin-interacting protein J, Plasma membrane adaptor HA2/AP2 adaptin alpha C subunit, AP2A2, ADTAB, CLAPA2, AP-2 complex subunit alpha-1, 100 kDa coated vesicle protein A, Adaptor protein complex AP-2 subunit alpha-1, Adaptor-related protein complex 2 subunit alpha-1, Alpha-adaptin A, Alpha1-adaptin, Clathrin assembly protein complex 2 alpha-A large chain, Plasma membrane adaptor HA2/AP2 adaptin alpha A subunit, AP2A1, ADTAA, CLAPA1

Background: Clathrin-mediated endocytosis is the pathway by which many receptors for nutrients and hormones are internalized to be recycled or down-regulated. During formation of clathrin coated membranes, clathrin co-assembles with heterotetrameric molecules known as assembly polypeptides (APs) or adaptors which form a layer of protein coat between the clathrin lattice and the membrane. There are two characterized adaptors AP1 and AP2. AP1 is associated with clathrin coated vesicles at the trans-Golgi network and AP2 is associated with the endocytic clathrin coated vesicles at the plasma membrane and has been shown to specifically interact with Shc and EGF receptor. AP2 is composed of four subunits, two separate 100 kDa gene products with similar domain structures (alpha and beta adaptin) and a 50 and 17 kDa subunit. There are two alpha-adaptin genes, alpha A and alpha C which have a tissue specific pattern of expression.

Gene ID: 161

Pathways: [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [EGFR Downregulation](#), [SARS-CoV-2 Protein Interactome](#)

## Application Details

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Application Notes: IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

Restrictions: For Research Use only

## Handling

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Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months