

AP09207PU-N**Polyclonal Antibody to AP2A2 / HIP9 (3-14) - Aff - Purified****Alternate names:**

100 kDa coated vesicle protein C, ADTAB, AP-2 complex subunit alpha-2, Adapter-related protein complex 2 alpha-2 subunit, Adaptor protein complex AP-2 subunit alpha-2, Alpha-2-adaptin, Alpha-adaptin C, CLAPA2, HYPJ, Huntingtin yeast partner J, Huntingtin-interacting protein 9, Huntingtin-interacting protein J, KIAA0899, Plasma membrane adaptor HA2/AP2 adaptin alpha C subunit, lathrin assembly protein complex 2 alpha-C large chain

Quantity:

0.1 mg

Concentration:

1.7 mg/ml (by UV absorbance at 280 nm)

Background:

The AP2A1 and AP2A2 represent the AP2 alpha proteins that are found in the AP2 complex in clathrin-coated vesicles. AP2A is also known as Alpha-adaptin A, Adaptor protein complex AP-2 alpha-1 subunit, Clathrin assembly protein complex 2 alpha-A large chain, 100 kDa coated vesicle protein A and Plasma membrane adaptor HA2/AP2 adaptin alpha A subunit. The AP2 complex is a heterotetramer consisting of two large adaptins (alpha or beta), a medium adaptin (mu), and a small adaptin (sigma). The complex is part of the protein coat on the cytoplasmic face of coated vesicles, which link clathrin to receptors in vesicles.

Uniprot ID:[Q94973](#)**NCBI:**[NP_036437](#)**GenID:**[161](#)**Host / Isotype:**

Goat / IgG

Immunogen:

Synthetic peptide corresponding aa 3-14 of Human AP2A1 and AP2A2 proteins

Format:**State:** Liquid purified Ig**Purification:** Affinity chromatography**Buffer System:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 containing 0.01% (w/v) Sodium Azide**Applications:**

ELISA: 1/5,000 - 1/20,000.

Western blot: 1/500 - 1/2,000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody is directed against AP2A.

Species Reactivity:**Tested:** Human.**Expected from sequence similarity:** Chimpanzee, Orangutan, Mouse, Rat, Chicken, Canine.**Storage:**

Store the antibody at -20°C.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Zhang J, Williams T. Identification and regulation of tissue-specific cis-acting elements associated with the human AP-2alpha gene. *Dev Dyn.* 2003 Oct;228(2):194-207. PubMed PMID: 14517991.
2. Scorilas A, Levesque MA, Ashworth LK, Diamandis EP. Cloning, physical mapping and structural characterization of the human alpha(A)-adaptin gene. *Gene.* 2002 May 1;289(1-2):191-9. PubMed PMID: 12036598.
3. Boehm, M. and Bonifacino, J.S. (2001) Adaptins: the final recount. *Mol. Biol. Cell* 12 (10), 2907-2920.
4. Robinson MS. Cloning of cDNAs encoding two related 100-kD coated vesicle proteins (alpha-adaptins). *J Cell Biol.* 1989 Mar;108(3):833-42. PubMed PMID: 2564002.

Pictures:

WB using Anti-AP2A antibody shows detection of a band just below 100 kDa corresponding to Human AP2A1 in a various preparations. Lane 1 - HeLa nuclear extract, Lane 2 - HeLa, Lane 3 - 293, Lane 4 - A431 and Lane 5 - Jurkat whole cell lysates. In lanes 6-10 the antibody was preincubated with 1 µg/ml of the immunizing peptide which effectively blocks the specific reactivity of this antibody with AP2A. Primary antibody was used at 1:500.

