Anti-AP2A1 monoclonal antibody, clone BD2-N22 (DCABH-8433)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

**Product Overview**
Mouse monoclonal to alpha Adaptin

**Antigen Description**
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.

**Immunogen**
Full length native protein (purified) corresponding to Cow alpha Adaptin. Purified Bovine brain adaptor complexes

**Isotype**
IgG2a

**Source/Host**
Mouse

**Species Reactivity**
Mouse, Rat, Chicken, Cow, Human, Pig, Primates, Amphibians

**Clone**
BD2-N22

**Purity**
Protein A purified

**Conjugate**
Unconjugated

**Applications**
IP, WB, ICC/IF, ELISA, IHC-P, Flow Cyt

**Positive Control**
pig brain lysate and transfected COS cells.

**Format**
Liquid

**Size**
500 μg

**Buffer**
Preservative: 0.05% Sodium azide; Constituent: PBS
<table>
<thead>
<tr>
<th><strong>Preservative</strong></th>
<th>0.05% Sodium Azide</th>
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<tbody>
<tr>
<td><strong>Storage</strong></td>
<td>Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.</td>
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<tr>
<td><strong>Ship</strong></td>
<td>Shipped at 4°C.</td>
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</tbody>
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**GENE INFORMATION**

<table>
<thead>
<tr>
<th><strong>Gene Name</strong></th>
<th>AP2A1 adaptor-related protein complex 2, alpha 1 subunit [Bos taurus]</th>
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</thead>
<tbody>
<tr>
<td><strong>Official Symbol</strong></td>
<td>Ap2a1</td>
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<tr>
<td><strong>Synonyms</strong></td>
<td>AP2A1; adaptor-related protein complex 2, alpha 1 subunit; AP-2 complex subunit alpha-1;</td>
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<tr>
<td><strong>Entrez Gene ID</strong></td>
<td>784636</td>
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<td><strong>Protein Refseq</strong></td>
<td>NP_001178369</td>
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<td><strong>UniProt ID</strong></td>
<td>Q1JPJ7</td>
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<td><strong>Pathway</strong></td>
<td>Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Synaptic vesicle cycle, organism-specific biosystem;</td>
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</tbody>
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