



# V-ATPase C2 Monoclonal Antibody

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| <b>Catalog No</b>                  | YP-mAb-16512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>                   | ATP6V1C2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human ATP6V1C2. AA range:121-170                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Specificity</b>                 | V-ATPase C2 Monoclonal Antibody detects endogenous levels of V-ATPase C2 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Dilution</b>                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>                    | ATP6C2;ATP6V1C2;ATPase H <sup>+</sup> transporting lysosomal 42kDa V1 subunit C2;V ATPase C2 subunit;V ATPase subunit C 2;V type proton ATPase subunit C 2;V-ATPase subunit C 2;V-type proton ATPase subunit C 2;Vacuolar ATP synthase subunit C 2;Vacuolar H <sup>+</sup> ATPase C2;Vacuolar proton pump subunit C 2; VATC2_HUMAN;VMA 5;VMA5;V-ATPase C2                                                                                                                                                                                               |
| <b>Observed Band</b>               | 48kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Calculated Molecular Weight</b> | 48kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Cell Pathway</b>                | vacuolar proton-transporting V-type ATPase, V1 domain,lysosomal membrane, cytosol,proton-transporting V-type ATPase, V1 domain,extracellular exosome,                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue Specificity</b>          | Kidney and placenta.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Function</b>                    | function:Subunit of the peripheral V1 complex of vacuolar ATPase. Subunit C is necessary for the assembly of the catalytic sector of the enzyme and is likely to have a specific function in its catalytic activity. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells., similarity:Belongs to the V-ATPase C subunit family.,subunit:V-ATPase is an heteromultimeric enzyme composed of a peripheral catalytic V1 complex (components A to H) attached to an integral membrane V0 proton pore complex |



(components: a, c, c', c'' and d), tissue specificity: Kidney and placenta.,

### Background

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. This gene encodes alternate transcriptional splice variants, encoding different V1 domain C subunit isoforms. [provided by RefSeq, Jul 2008],

### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

