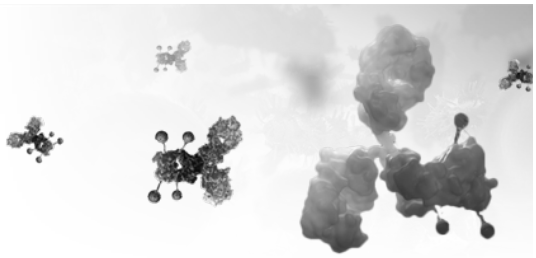

# Mouse anti-Human ATP6V1E1 monoclonal antibody, clone 5F22 (CABT-B9820)

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

## PRODUCT INFORMATION

| | |
|---|---|
| **Immunogen** | ATP6V1E1 (AAH04443, 1 a.a. ~ 227 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Isotype** | IgG2a |
| **Source/Host** | Mouse |
| **Species Reactivity** | Human |
| **Clone** | 5F22 |
| **Conjugate** | Unconjugated |
| **Applications** | WB,IF,sELISA,ELISA |
| **Sequence Similarities** | MALSDADVQKQIKHMMAFIEQEANEKAEEIDAKAEEEFNIEKGRLVQTQRLKIMEYYEKK EKQIEQQKKIQMSNLMNQARLKVLRARDDLITDLLNEAKQRLSKVVKDTTRYQVLLDGLV LQGLYQLLEPRMIVRCRKQDFPLVKAAVQKAIPMYKIATKNDVDVQIDQESYLPEDIAGG VEIYNGDRKIKVSNTLESRLDLIAQQMMPEVRGALFGANANRKFLD |
| **Format** | Liquid |
| **Size** | 100 µg |
| **Buffer** | In 1x PBS, pH 7.2 |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## BACKGROUND

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| | |
|---|---|
| **Introduction** | 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 E subunit isoforms. Pseudogenes for this gene have been found in the genome. [provided by RefSeq, Jul 2008] |
| **Keywords** | ATP6V1E1; ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1; P31; Vma4; ATP6E; ATP6E2; ATP6V1E; V-type proton ATPase subunit E 1; V-ATPase, subunit E; V-ATPase subunit E 1; V-ATPase 31 kDa subunit; vacuolar proton pump subunit E 1; H+-transporting ATP synthase chain E, vacuolar; H(+)-transporting two-sector ATPase, 31kDa subunit; |

# GENE INFORMATION

| | |
|---|---|
| **Entrez Gene ID** | 529 |
| **UniProt ID** | A8MUE4 |
| **Pathway** | Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem |
| **Function** | ATP binding; hydrogen ion transporting ATP synthase activity, rotational mechanism; hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity; protein binding; proton-transporting ATPase activity, rotational mechanism |

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