

100 kDa V-ATPase monoclonal antibody

CATALOG #:	A6426
COMPONENTS:	250 µg monoclonal antibody
APPLICATIONS:	Western blotting and Immunocytochemistry (heat-induced antigen-retrieval improves signal)
CLONE ID OF MONOCLONAL ANTIBODY (mAb):	10D7A7B2
SPECIES CROSS-REACTIVITY:	<i>S. cerevisiae</i>
HOST SPECIES AND ISOTYPE:	Mouse IgG2a, k
IMMUNOGEN:	Purified <i>S. cerevisiae</i> vacuole membranes
CONCENTRATION:	1 mg/mL in HEPES-Buffered Saline (HBS) with 0.02% azide as a preservative
SUGGESTED WORKING CONCENTRATION:	0.1 µg/mL for Western blotting. 20 µg/mL for Immunocytochemistry
mAb PURITY:	Near homogeneity as judged by SDS-PAGE. The antibody was produced <i>in vitro</i> using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
STORAGE CONDITIONS:	Store at 4°C. Do not freeze.
COUNTRY OF ORIGIN:	USA

BACKGROUND:

Antibody binding specificity was determined by Particle Concentration Fluorescence Immunoassay (PCFIA) using the 100 kDa vacuolar H⁺-ATPase (V-ATPase) subunit, by Western blot immunoassay using protein extracts from yeast, and by indirect immunofluorescence of fixed yeast cells.

The antibody can be used to detect the yeast 100 kDa V-ATPase subunit (the product of VPH1 gene) on Western blots or to immunolocalize the V-ATPase enzyme complex in fixed yeast cells. The antibody can also be used to precipitate the native yeast V-ATPase complex.

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