

FXYD3 (10V6) Mouse Monoclonal antibody
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Catalog # AP93861**Specification**

FXYD3 (10V6) Mouse Monoclonal antibody - Product Information

Application	WB, IF
Primary Accession	Q14802
Reactivity	Human
Clonality	Monoclonal
Calculated MW	9263

FXYD3 (10V6) Mouse Monoclonal antibody - Additional Information**Gene ID** 5349**Other Names**

FXYD domain-containing ion transport regulator 3, Chloride conductance inducer protein Mat-8, Mammary tumor 8 kDa protein, Phospholemman-like, Sodium/potassium-transporting ATPase subunit FXYD3, FXYD3, MAT8, PLML

Storage Conditions

-20°C

FXYD3 (10V6) Mouse Monoclonal antibody - Protein Information**Name** FXYD3**Synonyms** MAT8, PLML**Function**

Associates with and regulates the activity of the sodium/potassium-transporting ATPase (NKA) which transports Na(+) out of the cell and K(+) into the cell (PubMed:[17077088](http://www.uniprot.org/citations/17077088)). Reduces glutathionylation of the NKA beta-1 subunit ATP1B1, thus reversing glutathionylation-mediated inhibition of ATP1B1 (PubMed:[21454534](http://www.uniprot.org/citations/21454534)). Induces a hyperpolarization-activated chloride current when expressed in Xenopus oocytes (PubMed:[7836447](http://www.uniprot.org/citations/7836447)).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

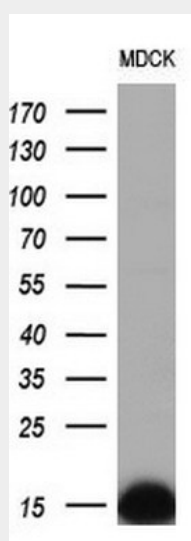
Isoform 1: Expressed mainly in differentiated cells (at protein level). Isoform 2: Expressed mainly in undifferentiated cells (at protein level).

FXYD3 (10V6) Mouse Monoclonal antibody - Protocols

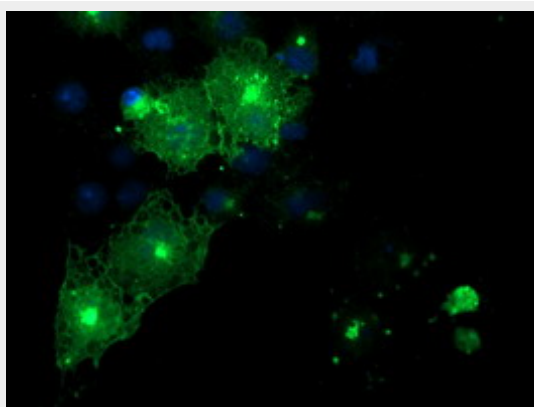
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

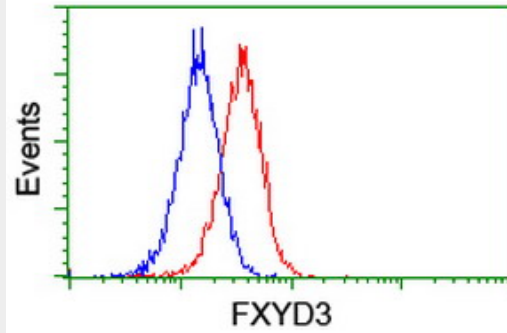
FXYD3 (10V6) Mouse Monoclonal antibody - Images



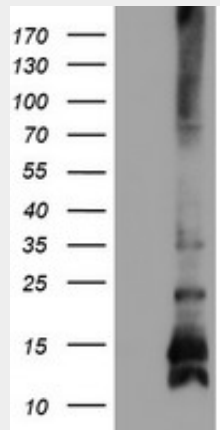
Western blot analysis of extracts (10ug) from 1 cell line by using anti-FXYD3 monoclonal antibody (1:200).



Anti-FXYD3 mouse monoclonal antibody (AP93861) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY FXYD3 .



Flow cytometric Analysis of Jurkat cells, using anti-FXYD3 antibody (AP93861), (Red), compared to a nonspecific negative control antibody, (Blue).



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY FXYD3 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FXYD3. Positive lysates (100ug) and (20ug) can be purchased separately from biodragon.

FXYD3 (10V6) Mouse Monoclonal antibody - Background

This gene belongs to a small family of FXYD-domain containing regulators of Na⁺/K⁺ ATPases which share a 35-amino acid signature sequence domain, beginning with the sequence PFXYD, and containing 7 invariant and 6 highly conserved amino acids. This gene encodes a cell membrane protein that may regulate the function of ion-pumps and ion-channels. This gene may also play a role in tumor progression. Alternative splicing results in multiple transcript variants encoding distinct isoforms.