

FXYD3 (10V6) Mouse Monoclonal antibody

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Catalog # AP93861

Product Information

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

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
Dilution	WB~~1:1000 IF~~1:50~200
Storage Conditions	-20°C

Protein Information

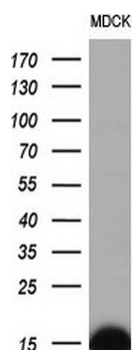
Name	FXYD3
Synonyms	MAT8, PLML
Function	Associates with and regulates the activity of the sodium/potassium-transporting ATPase (NKA) which transports Na(+) out of the cell and K(+) into the cell (PubMed: 17077088). Reduces glutathionylation of the NKA beta-1 subunit ATP1B1, thus reversing glutathionylation-mediated inhibition of ATP1B1 (PubMed: 21454534). Induces a hyperpolarization-activated chloride current when expressed in Xenopus oocytes (PubMed: 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).

Background

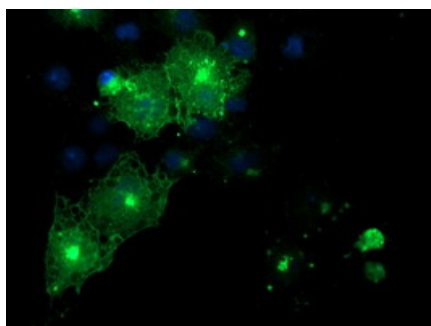
This gene belongs to a small family of FXYD-domain containing regulators of Na⁺/K⁺ ATPases which share a

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.

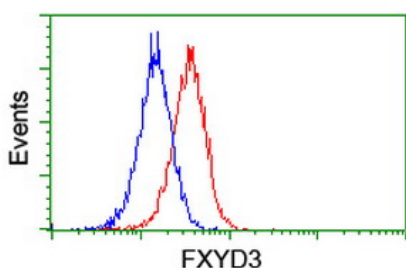
Images



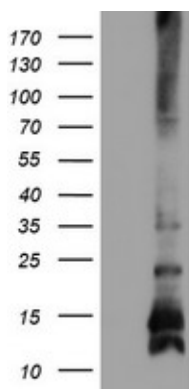
Western blot analysis of extracts (10ug) from 1 cell line by using anti-FXYD3 monoclonal antibody (1:200).



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.