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FXYD3 (15L6) Mouse Monoclonal antibody

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Catalog # AP93862

Product Information

Application	WB, IHC, 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 IHC~~1:100~500 IF~~1:50~200
Storage Conditions	-20℃

Protein Information

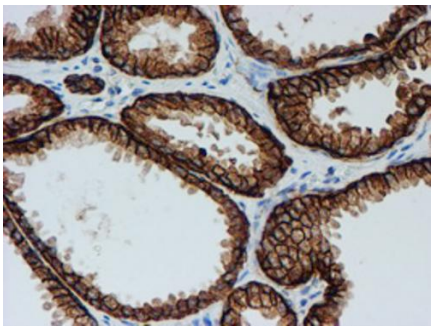
Name	FXYD3
Synonyms	MAT8, PLML
Function	Associates with and regulates the activity of the sodium/potassium-transporting ATPase (NKA) which transports Na(+) out of the cell and K(+) into the cell (PubMed:17077088). Reduces glutathionylation of the NKA beta-1 subunit ATP1B1, thus reversing glutathionylation-mediated 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

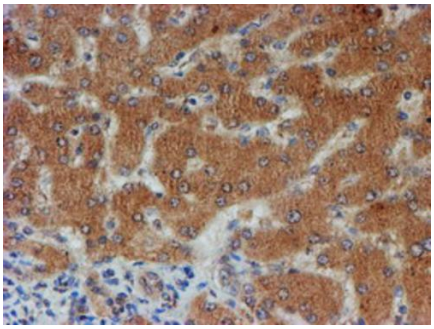
This gene belongs to a small family of FXYD-domain containing regulators of Na+/K+ ATPases which share a

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.

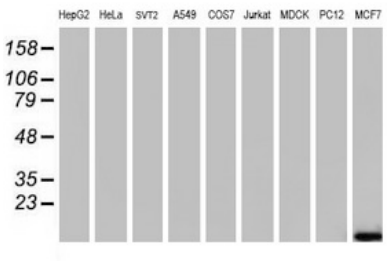
Images



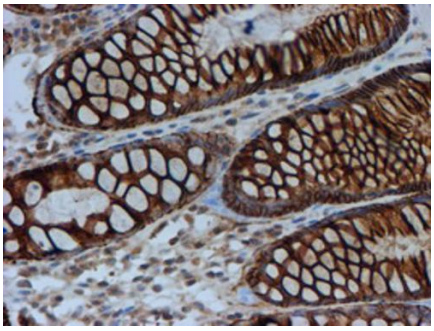
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-FXYD3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93862)



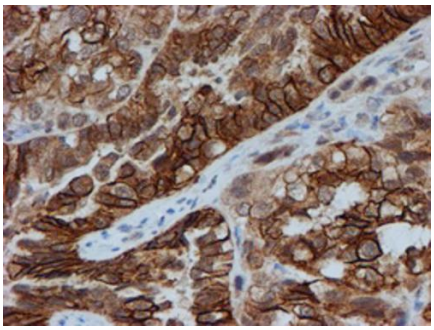
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-FXYD3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93862)



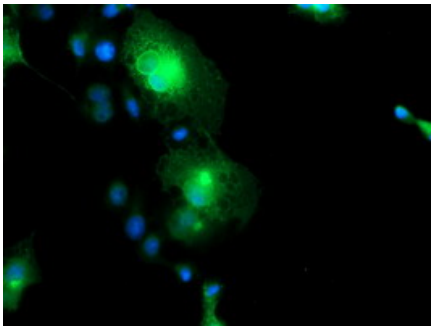
Western blot analysis of extracts (35ug) from 9 different cell lines by usin g anti-FXYD3 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



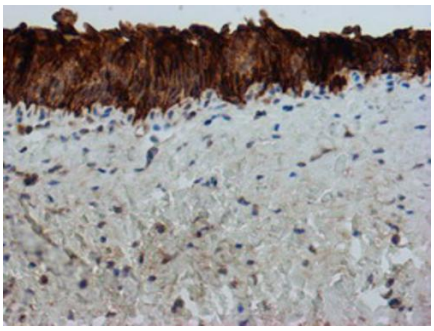
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-FXYD3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93862)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-FXYD3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93862)



Anti-FXYD3 mouse monoclonal antibody (AP93862) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY FXYD3 .



Immunohistochemical staining of paraffin-embedded Human bladder tissue within the normal limits using anti-FXYD3 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, AP93862)