

# FXYD3 Rabbit Polyclonal Antibody

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Catalog # AP93538

## Product Information

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|                   |                         |
|-------------------|-------------------------|
| Application       | IHC, IF                 |
| Primary Accession | <a href="#">Q14802</a>  |
| Reactivity        | Rat, Human, Mouse       |
| Host              | Polyclonal, Rabbit, IgG |
| Clonality         | Polyclonal              |
| Calculated MW     | 9263                    |

## Additional Information

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|--------------------|--|
| 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           | IHC~~1:100~500 IF~~1:50~200  |
| Storage Conditions | -20°C  |

## Protein Information

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|                   |  |
|-------------------|--|
| 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: <a href="#">17077088</a> ). Reduces glutathionylation of the NKA beta-1 subunit ATP1B1, thus reversing glutathionylation-mediated inhibition of ATP1B1 (PubMed: <a href="#">21454534</a> ). Induces a hyperpolarization-activated chloride current when expressed in Xenopus oocytes (PubMed: <a href="#">7836447</a> ). |
| 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).  |

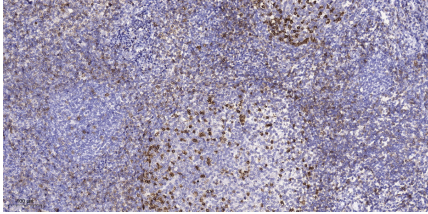
## Background

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This gene belongs to a small family of FXYD-domain containing regulators of Na<sup>+</sup>/K<sup>+</sup> 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.[provided by RefSeq, Oct 2008],

## Images

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Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

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