

**FXYD7 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18030a**

### Specification

#### FXYD7 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">P58549</a>
Other Accession	<a href="#">NP_071289.1</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	8524
Antigen Region	1-30

#### FXYD7 Antibody (N-term) - Additional Information

##### Gene ID 53822

##### Other Names

FXYD domain-containing ion transport regulator 7, FXYD7

##### Target/Specificity

This FXYD7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human FXYD7.

##### Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

##### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

##### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

FXYD7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### FXYD7 Antibody (N-term) - Protein Information

##### Name FXYD7

**Function** Associates with and regulates the activity of the sodium/potassium-transporting ATPase

(NKA) which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane (PubMed:[33231612](#)). Reduces the apparent affinity for external K(+), an effect that depends on the presence of external Na(+) and voltage (PubMed:[33231612](#)). Increases the apparent affinity for intracellular Na(+) (PubMed:[33231612](#)).

#### Cellular Location

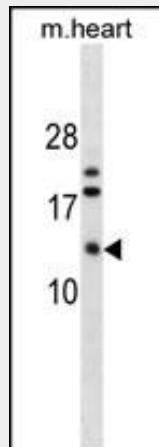
Cell membrane {ECO:0000250|UniProtKB:P59648}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P59648} Note=Able to translocate to the plasma membrane independent of its association with NKA (in vitro). {ECO:0000250|UniProtKB:P59649}

#### FXYD7 Antibody (N-term) - 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](#)

#### FXYD7 Antibody (N-term) - Images



FXYD7 Antibody (N-term) (Cat. #AP18030a) western blot analysis in mouse heart tissue lysates (35ug/lane). This demonstrates the FXYD7 antibody detected the FXYD7 protein (arrow).

#### FXYD7 Antibody (N-term) - Background

This reference sequence was derived from multiple replicate ESTs and validated by similar human genomic sequence. This gene encodes a member of a family of small membrane proteins that share a 35-amino acid signature sequence domain, beginning with the sequence PFXYD and containing 7 invariant and 6 highly conserved amino acids. The approved human gene nomenclature for the family is FXYD-domain containing ion transport regulator. Transmembrane topology has been established for two family members (FXYD1 and FXYD2), with the N-terminus extracellular and the C-terminus on the cytoplasmic side of the membrane. FXYD2, also

known as the gamma subunit of the Na,K-ATPase, regulates the properties of that enzyme. FXYD1 (phospholemman), FXYD2 (gamma), FXYD3 (MAT-8), FXYD4 (CHIF), and FXYD5 (RIC) have been shown to induce channel activity in experimental expression systems. This gene product, FXYD7, is novel and has not been characterized as a protein. [RefSeq curation by Kathleen J. Sweadner, Ph.D., [sweadner@helix.mgh.harvard.edu](mailto:sweadner@helix.mgh.harvard.edu).].

#### **FXYD7 Antibody (N-term) - References**

Bailey, S.D., et al. Diabetes Care (2010) In press :  
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)  
Beguin, P., et al. EMBO J. 21(13):3264-3273(2002)  
Sweadner, K.J., et al. Genomics 68(1):41-56(2000)  
Gale, M. Jr., et al. Mol. Cell. Biol. 18(2):859-871(1998)