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FXYD7 Antibody
Catalog # ASC11369

Specification

FXYD7 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	P58549
Other Accession	AAH18619, 11612659
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**FXYD7 antibody can be used for detection of FXYD7 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

FXYD7 Antibody - Additional Information

Gene ID **53822**

Target/Specificity
FXYD7; FXYD7 antibody is human, mouse and rat reactive. FXYDY7 antibody is predicted to not react with other members of the FXDY protein family

Reconstitution & Storage
FXYD7 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
FXYD7 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FXYD7 Antibody - Protein Information

Name FXYD7

Cellular Location
Membrane; Single-pass membrane protein

FXYD7 Antibody - Protocols

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

- Western Blot

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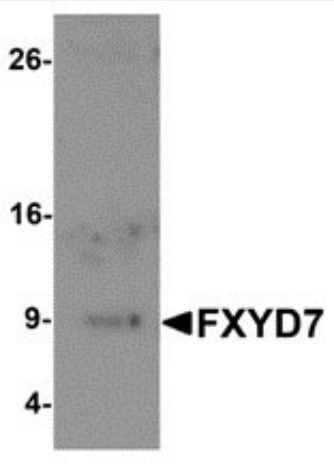
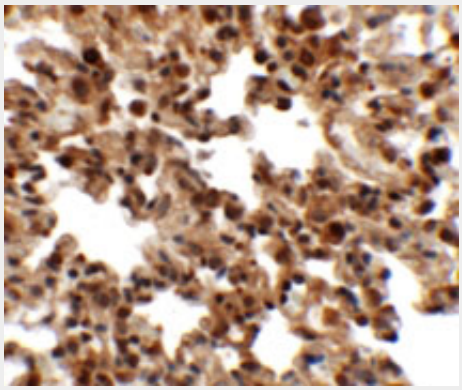
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FXYD7 Antibody - Images



Western blot analysis of FXYD7 in human lung tissue lysate with FXYD7 antibody at 1 µg/mL.



Immunohistochemistry of FXYD7 in rat lung tissue with FXYD7 antibody at 2.5 µg/mL.

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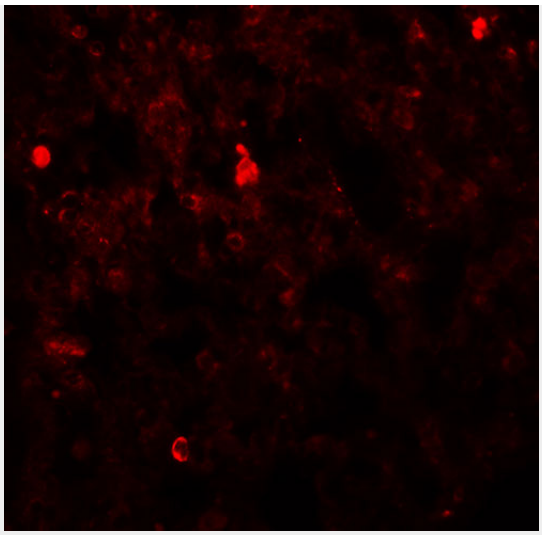

Immunofluorescence of FXYD4 in rat lung tissue with FXYD4 antibody at 20 µg/mL.

FXYD7 Antibody - Background

FXYD7 Antibody: FXYD7 is 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 seven invariant and six highly conserved amino acids. The FXYD proteins are tissue-specific regulators of Na, K-ATPase, with FXYD7 initially identified as a brain-specific member. FXYD7 interacts with Na, K-ATPase through its transmembrane domain and is thought to influence the affinity of Na, K-ATPase for external K+ and Na+ ions. Other members of the FXDY family have similar functions: FXYD2 regulates the properties of Na, K-ATPase, while FXYD1 (phospholemman), FXYD3 (MAT-8), FXYD4 (CHIF), and FXYD5 (RIC) have been shown to induce channel activity in experimental expression systems.

FXYD7 Antibody - References

Beguin P, Crambert G, Monnet-Tschudi F, et al. FXYD7 is a brain-specific regulator of Na,K-ATPase alpha1-beta isozymes. EMBO J. 2002; 21:3264-73
Crambert G and Geering K. FXYD proteins: new tissue-specific regulators of the ubiquitous Na,K-ATPase. Sci. STKE 2003; 2003 (166):RE1.
Li C, Crambert G, Thuillard D, et al. role of the transmembrane domain of FXDY7 in structural and functional interactions with Na,K-ATPase. J. Biol. Chem. 2005; 280:42738-43.