10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FXYD2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant FXYD2.
Catalog # AT2128a

Specification

FXYD2 Antibody (monoclonal) (M01) - Product Information

Application	**WB, IHC**
Primary Accession	P54710
Other Accession	BC005302
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b kappa**
Calculated MW	**7283**

FXYD2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 486

Other Names
Sodium/potassium-transporting ATPase subunit gamma, Na(+)/K(+) ATPase subunit gamma, FXYD domain-containing ion transport regulator 2, Sodium pump gamma chain, FXYD2, ATP1C, ATP1G1

Target/Specificity
FXYD2 (AAH05302.1, 1 a.a. ~ 64 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
FXYD2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

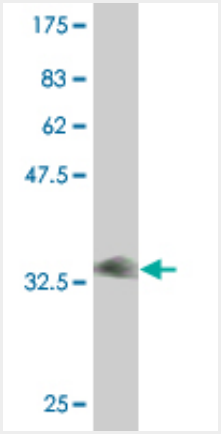
FXYD2 Antibody (monoclonal) (M01) - Protocols

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

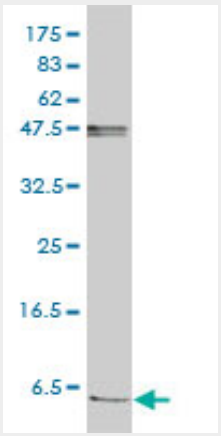
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

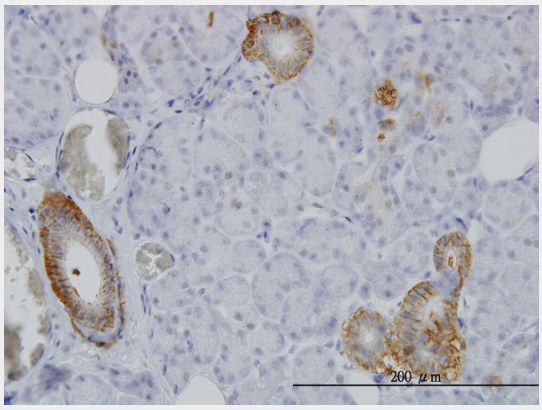
FXYD2 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (32.78 KDa) .



FXYD2 monoclonal antibody (M01), clone 1C3-B3 Western Blot analysis of FXYD2 expression in Jurkat ((Cat # AT2128a)



Immunoperoxidase of monoclonal antibody to FXYD2 on formalin-fixed paraffin-embedded human

salivary gland. [antibody concentration 3 ug/ml]

FXYD2 Antibody (monoclonal) (M01) - Background

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. Mouse FXYD5 has been termed RIC (Related to Ion Channel). 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. 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. The Type III integral membrane protein encoded by this gene is the gamma subunit of the Na,K-ATPase present on the plasma membrane. Although the Na,K-ATPase does not depend on the gamma subunit to be functional, it is thought that the gamma subunit modulates the enzyme's activity by inducing ion channel activity. Mutations in this gene have been associated with renal hypomagnesaemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

FXYD2 Antibody (monoclonal) (M01) - References

1.A genomic-based approach identifies FXYD domain containing ion transport regulator 2 (FXYD2)gammaa as a pancreatic beta cell-specific biomarker.Flamez D, Roland I, Berton A, Kutlu B, Dufrane D, Beckers MC, De Waele E, Rooman I, Bouwens L, Clark A, Lonneux M, Jamar JF, Goldman S, Marechal D, Goodman N, Gianello P, Van Huffel C, Salmon I, Eizirik DL.Diabetologia. 2010 Apr 9. [Epub ahead of print]