ATP1A3 Monoclonal Antibody (XVIF9-G10)

Product Details	
Size	100 µg
Species Reactivity	Bovine, Dog, Guinea pig, Human, Mouse, Non-human primate, Sheep, Rabbit, Rat
Published Species	Rat, Pig, Amphibian, Shark, Bovine, Mouse, Human
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	XVIF9-G10
Conjugate	Unconjugated
Immunogen	Canine cardiac microsomes.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	0.02M potassium phosphate, pH 7.2, with 0.15M NaCl
Contains	0.05% sodium azide
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2274447

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg / 10^6 cells	-
Immunocytochemistry (ICC)	5 µg/mL	8 Publications
Immunofluorescence (IF)	5 µg/mL	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	3 µg/mL	1 Publication
Western Blot (WB)	1 µg/mL	50 Publications
Immunohistochemistry (IHC)	1:500	10 Publications
Miscellaneous PubMed (Misc)	-	2 Publications

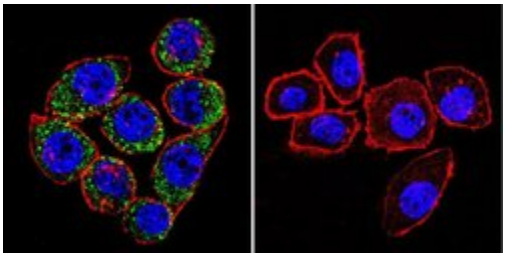
Product Specific Information

MA3-915 detects sodium/potassium ATPase from human, monkey, bovine, sheep, canine, rabbit, guinea pig, mouse and rat tissue. This antibody is specific for the alpha-3 subunit.

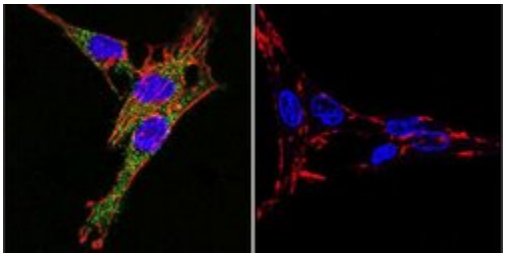
MA3-915 has been successfully used in Western blot and immunohistochemical procedures. By Western blot, this antibody detects an ~110 kDa protein representing the alpha-3 subunit of the sodium/potassium ATPase from canine skeletal muscle extract. Immunohistochemical staining of sodium/potassium ATPase in rat retina with MA3-915 yields a pattern consistent with plasma membrane localization.

The MA3-915 antigen is canine cardiac microsomes.

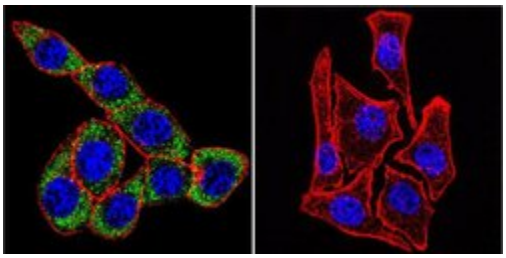
Product Images For ATP1A3 Monoclonal Antibody (XVIF9-G10)



ATP1A3 Antibody (MA3-915) in IF
Immunofluorescent analysis of Sodiμm/Potassium ATPase alpha-3 using Sodiμm /Potassium ATPase alpha-3 Monoclonal antibody (XVIF9-G10) (Product # MA3-915) shows staining in U251 glioma cells. Sodiμm/Potassium ATPase alpha-3 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Sodiμm /Potassium ATPase alpha-3 (Product # MA3-915) at a dilution of 1:20 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



ATP1A3 Antibody (MA3-915) in IF
Immunofluorescent analysis of Sodiμm/Potassium ATPase alpha-3 using Sodiμm /Potassium ATPase alpha-3 Monoclonal antibody (XVIF9-G10) (Product # MA3-915) shows staining in C6 glioma cells. Sodiμm/Potassium ATPase alpha-3 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Sodiμm /Potassium ATPase alpha-3 (Product # MA3-915) at a dilution of 1:20 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.



ATP1A3 Antibody (MA3-915) in IF
Immunofluorescent analysis of Sodiμm/Potassium ATPase alpha-3 using Sodiμm /Potassium ATPase alpha-3 Monoclonal antibody (XVIF9-G10) (Product # MA3-915) shows staining in HeLa cells. Sodiμm/Potassium ATPase alpha-3 staining (green), F-Actin staining with Phalloidin (red) and nuclei with DAPI (blue) is shown. Cells were grown on chamber slides and fixed with formaldehyde prior to staining. Cells were probed without (control) or with or an antibody recognizing Sodiμm/Potassium ATPase alpha-3 (Product # MA3-915) at a dilution of 1:20 over night at 4 °C, washed with PBS and incubated with a DyLight-488 conjugated secondary antibody (Product # 35552 for GAR, Product # 35503 for GAM). Images were taken at 60X magnification.

View more figures on thermofisher.com

77 References

Immunocytochemistry (8)

International journal of molecular sciences

Regulation of Neuronal Na,K-ATPase by Extracellular Scaffolding Proteins.

"MA3-915 was used in Immunocytochemistry-immunoflourescence to study the regulation of neuronal Na,K-ATPase by extracellular scaffolding proteins."

Authors: Liebmann T,Fritz N,Kruusmägi M,Westin L,Bernhem K,Bondar A,Aperia A,Brismar H

Species
Rat

Dilution
Not Cited

Year
2018

Neurophotonics

Sodium pump organization in dendritic spines.

"MA3-915 was used in immunocytochemistry to characterize the organization of sodium pumps in dendritic spines"

Authors: Blom H,Bernhem K,Brismar H

Species
Not Applicable

Dilution
Not Cited

Year
2016

View more ICC references on thermofisher.com

Immunofluorescence (6)

International journal of molecular sciences

Regulation of Neuronal Na,K-ATPase by Extracellular Scaffolding Proteins.

"MA3-915 was used in Immunocytochemistry-immunoflourescence to study the regulation of neuronal Na,K-ATPase by extracellular scaffolding proteins."

Authors: Liebmann T,Fritz N,Kruusmägi M,Westin L,Bernhem K,Bondar A,Aperia A,Brismar H

Species
Rat

Dilution
Not Cited

Year
2018

Neurophotonics

Sodium pump organization in dendritic spines.

"MA3-915 was used in immunocytochemistry to characterize the organization of sodium pumps in dendritic spines"

Authors: Blom H,Bernhem K,Brismar H

Species
Not Applicable

Dilution
Not Cited

Year
2016

View more IF references on thermofisher.com

More applications with references on thermofisher.com

WB (50) **IHC (10)** **Misc (2)** **IHC (F) (1)**