Aquaporin 1 Recombinant Rabbit Monoclonal Antibody (JM10-98)

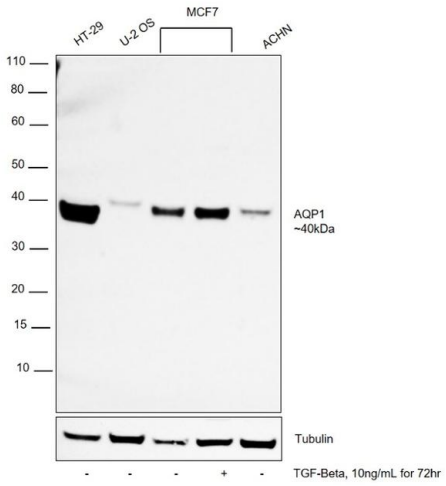
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Expression system	HEK293 cells
Class	Recombinant Monoclonal
Type	Antibody
Clone	JM10-98
Conjugate	Unconjugated
Immunogen	Synthetic peptide within Human AQP1 aa 245-269
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	TBS, pH 7.4, with 40% Glycerol, 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2809870

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	-
Immunohistochemistry (IHC)	1:50-1:1000	1 Publication
Immunocytochemistry (ICC/IF)	1:50-1:200	-

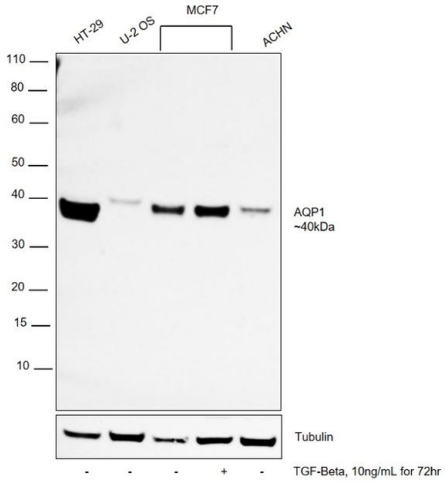
Product Specific Information

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

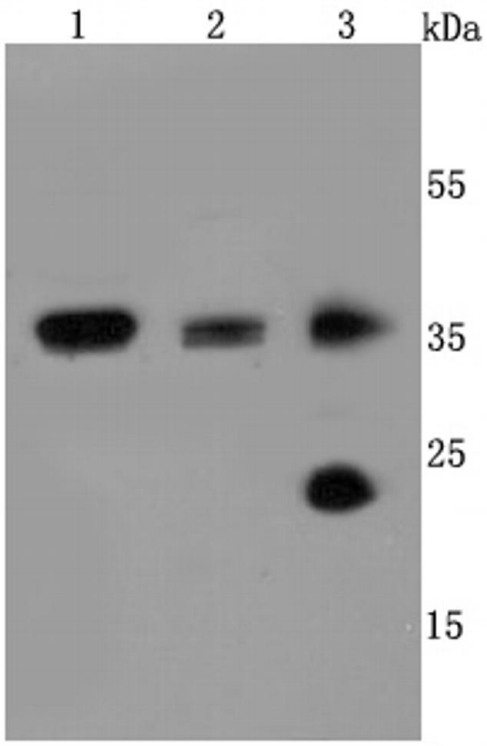
Product Images For Aquaporin 1 Recombinant Rabbit Monoclonal Antibody (JM10-98)



Aquaporin 1 Antibody (MA5-32593) in WB
Western blot was performed using Anti-Aquaporin 1 Recombinant Rabbit Monoclonal Antibody (JM10-98) (Product # MA5-32593) and a 40 kDa band corresponding to AQP1 was observed across cell lines tested and increased upon treatment in MCF7. Membrane enriched extracts (30 µg lysate) of HT-29 (Lane 1), U-2 OS (Lane 2), MCF7 (Lane 3), MCF7 treated with TGF-beta (10 ng /mL for 72 hr) (Lane 4) and ACHN (Lane 5) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:500 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Aquaporin 1 Antibody (MA5-32593)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Aquaporin 1 Recombinant Rabbit Monoclonal Antibody (JM10-98) (Product # MA5-32593), shows increased expression of proteins in MCF7 cells upon TGF-beta treatment. {TM}



Aquaporin 1 Antibody (MA5-32593) in WB
Western blot analysis of Aquaporin 1 in different lysates using a Monoclonal antibody (Product #MA5-32593) at a dilution of 1:500. Positive control: Line 1: Hela, Line 2:Jurkat, Line 3: Human kidney.

View more figures on thermofisher.com

1 Reference

Immunohistochemistry (1)

Nature communications

Constitutive activation of canonical Wnt signaling disrupts choroid plexus epithelial fate.

"MA5-32593 was used in Immunohistochemistry to study the presence of molecules downstream of cannonical Wnt signaling in vivo at embryonic stages in the human and mouse choroid plexus."

Authors: Parichha A,Suresh V,Chatterjee M,Kshirsagar A,Ben-Reuven L,Olender T,Taketo MM,Radosevic V,Bobic-Rasonja M,Trnski S,Holtzman MJ,Jovanov-Milosevic N,Reiner O,Tole S

Year
2022

Species
Mouse

Dilution
1:200