

Product Datasheet

Aquaporin-7 Antibody NBP1-30862

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-30862**Aquaporin-7 Antibody**

Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute in 0.1 ml of sterile water. Centrifuge to remove any insoluble material. Glycerol may be added (1:1) for additional stability. Please note the sample size is provided in reconstituted format.
Isotype	IgG
Purity	Unpurified
Buffer	Lyophilized from whole antisera

Product Description	
Description	Novus Biologicals Rabbit Aquaporin-7 Antibody (NBP1-30862) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Aquaporin-7 Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	364
Gene Symbol	AQP7
Species	Human, Mouse, Porcine, Equine
Reactivity Notes	Equine reactivity reported in scientific literature (PMID: 29052325). Porcine reactivity reported in scientific literature (PMID: 28941027). Mouse reactivity reported in scientific literature (PMID: 31944177).
Immunogen	A synthetic peptide from amino acid region 2-50 of human Aquaporin-7 conjugated to blue carrier protein was used as the antigen.

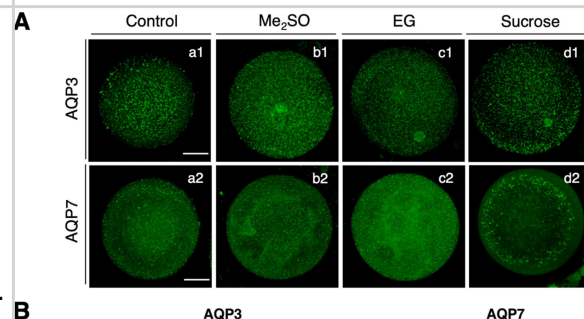
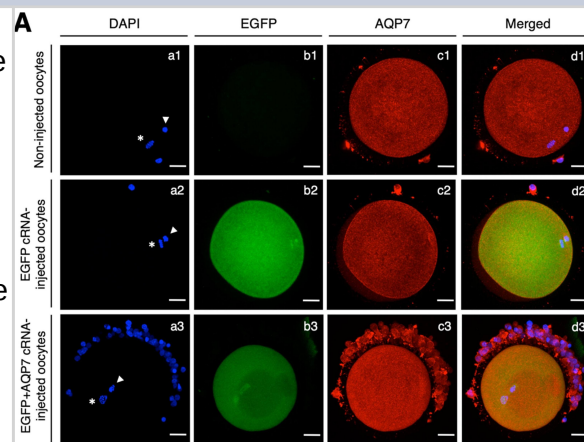
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence Reactivity reported in (PMID: 31944177), Immunohistochemistry-Frozen Reactivity reported in (PMID: 23628076)



Images

Exogenous expression of EGFP and EGFP+AQP7 cRNA in bovine MII oocytes. (A) Immunofluorescence analysis of AQP7 expression in bovine oocytes of non-injected, EGFP cRNA-injected and EGFP+AQP7 cRNA-injected oocytes. Nuclei counterstained with DAPI are displayed in blue (a1–a3), EGFP expression is displayed in green (b1–b3) and AQP7 protein expression is displayed in red (c1–c3). Overlaid images are shown in (d1–d3). White asterisk indicates chromosomes; white arrowhead indicates polar body. Scale bar, 30 μ m. (B) Summary data of the relative immunofluorescence intensity normalized to control. Data are presented in arbitrary units $\pm$ SEM, $n \geq 20$, a,b Different letters indicate statistically significant differences between treatments ($p < 0.05$). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35203238>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

Effect of the exposure of IVM bovine oocytes to hyperosmotic CPA solutions on the levels of expression of AQP3 and AQP7. (A) Immunofluorescence analysis of AQP3 and AQP7 expression in bovine oocytes without treatment (a1 and a2, respectively) and in the presence of 9.5% Me2SO (b1 and b2, respectively), 8% EG (c1 and c2, respectively) or 0.5 M sucrose (d1 and d2, respectively). The concentrations of the two penetrating cryoprotectants, EG and Me2SO, were chosen to prepare solutions with similar osmolalities, as previously indicated [15]. AQP3 and AQP7 protein expression is displayed in green. Scale bar, 30 μ m. (B) Summary data of the relative immunofluorescence intensity normalized to control. Data are presented in arbitrary units $\pm$ SEM, $n \geq 25$, a,b Different letters indicate statistically significant differences between treatments ($p < 0.05$). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35203238>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Escudero-Hernández C, Münch A, Østvik AE et al. The Water Channel Aquaporin 8 is a Critical Regulator of Intestinal Fluid Homeostasis in Collagenous Colitis *Journal of Crohn's and Colitis* 2020-07-30 [PMID: 32016376] (Immunohistochemistry-Frozen, Immunocytochemistry/ Immunofluorescence, Mouse)

Ribeiro JC, Bernardino RL, Carrageta DF et al. CFTR modulates aquaporin-mediated glycerol permeability in mouse Sertoli cells *Cellular and molecular life sciences : CMLS* 2022-11-15 [PMID: 36378343]

Garcia-Martinez T, Martinez-Rodero I, Roncero-Carol J et al. The Role of Aquaporin 7 in the Movement of Water and Cryoprotectants in Bovine In Vitro Matured Oocytes *Animals : an open access journal from MDPI* 2022-02-21 [PMID: 35203238] (ICC/IF, Bovine)

Marino N, German R, Rao X et al. Upregulation of lipid metabolism genes in the breast prior to cancer diagnosis *NPJ Breast Cancer* 2020-10-06 [PMID: 33083529]

Jambusaria A, Hong Z, Zhang L et al. Endothelial heterogeneity across distinct vascular beds during homeostasis and inflammation *Elife* 2020-01-16 [PMID: 31944177] (ICC/IF, Mouse)

Bonilla-Correal S, Noto F, Garcia-Bonavila E et al. First evidence for the presence of aquaporins in stallion sperm. *Reprod. Domest. Anim.* 2017-10-01 [PMID: 29052325] (WB, Equine)

Details:

Established via western blot that AQP7 can be found in horse seminal samples

Prieto-Martinez N, Vilagran I, Morato R et al. Relationship of aquaporins 3 (AQP3), 7 (AQP7), and 11 (AQP11) with boar sperm resilience to withstand freeze-thawing procedures *Andrology* 2017-09-21 [PMID: 28941027] (Porcine)

Vicente-Carrillo A, Ekwall H, alvarez-Rodriguez M, Rodriguez-Martinez H. Membrane Stress During Thawing Elicits Redistribution of Aquaporin 7 But Not of Aquaporin 9 in Boar Spermatozoa *Reprod. Domest. Anim.* 2016-07-13 [PMID: 27405395]

Prieto-Martinez N, Vilagran I, Morato R et al. Aquaporins 7 and 11 in boar spermatozoa: detection, localisation and relationship with sperm quality. *Reproduction, Fertility and Development* 2014-07-04 [PMID: 25482725]

Takumida M, Takumida H, Kakigi A et al. Localization of aquaporins in the mouse vestibular end organs. *Acta Otolaryngol* 2013-04-30 [PMID: 23628076] (ICC/IF, IHC-Fr, Mouse)





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Products Related to NBP1-30862

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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