

# 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**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Reconstitution Instructions</b>	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.
<b>Isotype</b>	IgG
<b>Purity</b>	Unpurified
<b>Buffer</b>	Lyophilized from whole antisera

<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	364
<b>Gene Symbol</b>	AQP7
<b>Species</b>	Human, Mouse, Porcine, Equine
<b>Reactivity Notes</b>	Equine reactivity reported in scientific literature (PMID: 29052325). Porcine reactivity reported in scientific literature (PMID: 28941027). Mouse reactivity reported in scientific literature (PMID: 31944177).
<b>Immunogen</b>	A synthetic peptide from amino acid region 2-50 of human Aquaporin-7 conjugated to blue carrier protein was used as the antigen.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry 1:300-1:2000, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Frozen 1:300-1:2000
<b>Application Notes</b>	ICC/IF reactivity reported in (PMID: 31944177), IHC-F reactivity reported in (PMID: 23628076), WB reactivity reported in (PMID: 29052325).



## 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-Paraffin)

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**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00000364-P01-10ug	Recombinant Human Aquaporin-7 GST (N-Term) Protein

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### **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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