

## Datasheet: AHP062T

<b>Description:</b>	SHEEP ANTI HUMAN VON WILLEBRAND FACTOR
<b>Specificity:</b>	VON WILLEBRAND FACTOR
<b>Other names:</b>	FACTOR VIII RELATED ANTIGEN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen (1)	▪			
Immunohistology - Paraffin		▪		
ELISA	▪			
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Rat, Pig <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG was prepared from serum by ion exchange chromatography
<b>Antiserum Preparation</b>	Antisera to von Willebrand factor were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG was prepared from serum by ion exchange chromatography
<b>Buffer Solution</b>	Glycine buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	0.01% Benzamidine 0.1% EACA

1mM EDTA

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<b>Immunogen</b>	Purified human von Willebrand factor prepared from citrated human plasma
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P04275</a> <a href="#">Related reagents</a>
	<b>Entrez Gene:</b> <a href="#">7450</a> VWF <a href="#">Related reagents</a>

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<b>Synonyms</b>	F8VWF
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<b>Specificity</b>	<b>Sheep anti Human von Willebrand Factor antibody</b> recognizes Human von Willebrand factor, a glycoprotein synthesized in endothelial cells and megakaryocytes and circulating in the blood as a noncovalent complex by association with factor VIII.
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<b>Histology Positive Control Tissue</b>	Tonsil
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<b>References</b>	<ol style="list-style-type: none"><li>1. Blades, M.C. <i>et al.</i> (2002) Stromal cell-derived factor 1 (CXCL12) induces human cell migration into human lymph nodes transplanted into SCID mice. <a href="#">J Immunol. 168 (9): 4308-17.</a></li><li>2. Johnson, L.A. &amp; Jackson, D.G. (2010) Inflammation-induced secretion of CCL21 in lymphatic endothelium is a key regulator of integrin-mediated dendritic cell transmigration. <a href="#">Int Immunol. 22 (10): 839-49.</a></li><li>3. Blagoveshchenskaya, A.D. <i>et al.</i> (2002) Selective and signal-dependent recruitment of membrane proteins to secretory granules formed by heterologously expressed von Willebrand factor. <a href="#">Mol Biol Cell. 13:1582-93.</a></li><li>4. Knipe, L. <i>et al.</i> (2010) A revised model for the secretion of tPA and cytokines from cultured endothelial cells. <a href="#">Blood. 116: 2183-91.</a></li><li>5. Babich, V. <i>et al.</i> (2009) Differential effect of extracellular acidosis on the release and dispersal of soluble and membrane proteins secreted from the Weibel-Palade body. <a href="#">J Biol Chem. 284: 12459-68.</a></li><li>6. Butthep, P. <i>et al.</i> (2004) Endothelial injury and altered hemodynamics in thalassemia. <a href="#">Clin Hemorheol Microcirc. 31: 287-93.</a></li><li>7. Chowdhury, F. <i>et al.</i> (2010) Interactions between endothelial cells and epithelial cells in a combined cell model of airway mucosa: effects on tight junction permeability. <a href="#">Exp Lung Res. 36: 1-11.</a></li><li>8. Johnson, L.A. and Jackson, D.G. (2010) Inflammation-induced secretion of CCL21 in lymphatic endothelium is a key regulator of integrin-mediated dendritic cell transmigration. <a href="#">Int Immunol. 22: 839-49.</a></li><li>9. Kiskin, N.I. <i>et al.</i> (2010) Protein mobilities and P-selectin storage in Weibel-Palade bodies. <a href="#">J Cell Sci. 123: 2964-75.</a></li><li>10. Kriehuber, E. <i>et al.</i> (2001) Isolation and characterization of dermal lymphatic and blood endothelial cells reveal stable and functionally specialized cell lineages. <a href="#">J Exp Med. 194: 797-808.</a></li><li>11. Mueller, A.M. <i>et al.</i> (2008) Novel role for SLPI in MOG-induced EAE revealed by spinal cord expression analysis. <a href="#">J Neuroinflammation. 5: 20.</a></li><li>12. Zhu, B. <i>et al.</i> (2005) Cyclic GMP-specific phosphodiesterase 5 regulates growth and apoptosis in pulmonary endothelial cells. <a href="#">Am J Physiol Lung Cell Mol Physiol. 289: L196-206.</a></li><li>13. Johnson, L.A. &amp; Jackson, D.G. (2013) The chemokine CX3CL1 promotes trafficking of dendritic cells through inflamed lymphatics. <a href="#">J Cell Sci. 126 (Pt 22): 5259-70.</a></li><li>14. Leclercq, A. <i>et al.</i> (2015) A Methodology for Concomitant Isolation of Intimal and Adventitial Endothelial Cells from the Human Thoracic Aorta. <a href="#">PLoS One. 10 (11): e0143144.</a></li></ol>
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15. Cheung, K. *et al.* (2015) CD31 signals confer immune privilege to the vascular endothelium. [Proc Natl Acad Sci U S A. 112 \(43\): E5815-24.](#)
16. Zhang, J. *et al.* (2017) Potential Antigens Involved in Delayed Xenograft Rejection in a Ggta1/Cmah Dko Pig-to-Monkey Model. [Sci Rep. 7 \(1\): 10024.](#)

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information**

Material Safety Datasheet documentation #10087 available at: 10087: <https://www.bio-rad-antibodies.com/uploads/MSDS/10087.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[FITC](#), [HRP](#)

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