

## Datasheet: AHP499G

**BATCH NUMBER 152200**

<b>Description:</b>	SHEEP ANTI RAT TGN38
<b>Specificity:</b>	TGN38
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	25 µg

### 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	▪			0.1ug/ml - 1ug/ml
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.1ug/ml - 1ug/ml
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.

#### Target Species

Rat

#### Species Cross Reactivity

Reacts with: Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

Purified IgG - liquid

#### Antiserum Preparation

Antisera to rat TGN38 were raised by repeated immunisation of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.02% Sodium Azide 1% Bovine Serum Albumin 25% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1 mg/ml
<b>Immunogen</b>	Recombinant fusion protein corresponding to extracellular domain of TGN38.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P19814</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">192152</a> Tgoln1    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2203272
<b>Specificity</b>	<p><b>Sheep anti Rat TGN38 antibody</b> recognizes rat TGN38, a 357 amino acid single pass trans membrane glycoprotein found primarily in the trans-golgi network, and acts as an excellent marker for this cellular organelle (<a href="#">Humphrey <i>et al.</i> 1993</a>).</p> <p>TGN38 is likely to have a role in intracellular transport (<a href="#">McNamara <i>et al.</i> 2004</a>) and plays a role in morphological maintenance (<a href="#">Girotti and Banting 1996</a>). It is the homologue of human TGN46 and macaque TGN47 (<a href="#">Ponnambalam <i>et al.</i> 1996</a>).</p>
<b>Immunohistology</b>	Fixation with methanol or methanol/acetone recommended.
<b>References</b>	<ol style="list-style-type: none"> <li>Vo, Y.P. <i>et al.</i> (2004) Recycling of the dense-core vesicle membrane protein phogrin in Min6 beta-cells. <a href="#">Biochem Biophys Res Commun. 324: 1004-10.</a></li> <li>Prabhu, Y. <i>et al.</i> (2014) Defective Transport of the Obesity Mutant PC1/3 N222D Contributes to Loss of Function. <a href="#">Endocrinology. 155: 2391-401.</a></li> <li>Ni-Komatsu, L. <i>et al.</i> (2008) Identification of quinolines that inhibit melanogenesis by altering tyrosinase family trafficking. <a href="#">Mol Pharmacol. 74:1576-86.</a></li> <li>Mathews, P.M. <i>et al.</i> (2002) Alzheimer's disease-related overexpression of the cation-dependent mannose 6-phosphate receptor increases Abeta secretion: role for altered lysosomal hydrolase distribution in beta-amyloidogenesis. <a href="#">J Biol Chem. 277: 5299-307.</a></li> <li>Phillips, S.E. <i>et al.</i> (2006) Specific and nonspecific membrane-binding determinants cooperate in targeting phosphatidylinositol transfer protein beta-isoform to the mammalian trans-Golgi network. <a href="#">Mol Biol Cell. 17: 2498-512.</a></li> <li>Waugh, M.G. <i>et al.</i> (2011) Detergent-free isolation and characterization of cholesterol-rich membrane domains from trans-Golgi network vesicles. <a href="#">J Lipid Res. 52: 582-9.</a></li> <li>Farah, C.A. <i>et al.</i> (2006) Tau interacts with Golgi membranes and mediates their association with microtubules. <a href="#">Cell Motil Cytoskeleton. 63: 710-24.</a></li> <li>Hesse, D. <i>et al.</i> (2010) Altered GLUT4 trafficking in adipocytes in the absence of the</li> </ol>

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#### Further Reading

1. Luzio, J.P. *et al.* (1990) Identification, sequencing and expression of an integral membrane protein of the trans-Golgi network (TGN38). [Biochem J. 270: 97-102.](#)
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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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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10048 available at: <https://www.bio-rad-antibodies.com/SDS/AHP499G>  
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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](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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