

Datasheet: AHP499G

Description:	SHEEP ANTI RAT TGN38
Specificity:	TGN38
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Buffer Solution

Phosphate buffered saline

Preservative	<0.1% Sodium Azide (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin 25% Glycerol
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Recombinant fusion protein corresponding to extracellular domain of TGN38.
External Database Links	<p>UniProt: P19814 Related reagents</p> <p>Entrez Gene: 192152 Tgoln1 Related reagents</p>
RRID	AB_2203272
Specificity	<p>Sheep anti Rat TGN38 antibody 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 (Humphrey et al. 1993).</p> <p>TGN38 is likely to have a role in intracellular transport (McNamara et al. 2004) and plays a role in morphological maintenance (Girotti and Banting 1996). It is the homologue of human TGN46 and macaque TGN47 (Ponnambalam et al. 1996).</p>
Immunohistology	Fixation with methanol or methanol/acetone recommended.
References	<ol style="list-style-type: none"> Vo, Y.P. <i>et al.</i> (2004) Recycling of the dense-core vesicle membrane protein phogrin in Min6 beta-cells. Biochem Biophys Res Commun. 324: 1004-10. Prabhu, Y. <i>et al.</i> (2014) Defective Transport of the Obesity Mutant PC1/3 N222D Contributes to Loss of Function. Endocrinology. 155: 2391-401. Ni-Komatsu, L. <i>et al.</i> (2008) Identification of quinolines that inhibit melanogenesis by altering tyrosinase family trafficking. Mol Pharmacol. 74:1576-86. 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. J Biol Chem. 277: 5299-307. 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. Mol Biol Cell. 17: 2498-512. Waugh, M.G. <i>et al.</i> (2011) Detergent-free isolation and characterization of cholesterol-rich membrane domains from trans-Golgi network vesicles. J Lipid Res. 52: 582-9. Farah, C.A. <i>et al.</i> (2006) Tau interacts with Golgi membranes and mediates their association with microtubules. Cell Motil Cytoskeleton. 63: 710-24. Hesse, D. <i>et al.</i> (2010) Altered GLUT4 trafficking in adipocytes in the absence of the GTPase Arfrp1. Biochem Biophys Res Commun. 394: 896-903. Miranda-Saksena, M. <i>et al.</i> (2002) In rat dorsal root ganglion neurons, herpes simplex

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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.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10048 available at: 10048: <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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