

Datasheet: AHP1597

Description:	RABBIT ANTI RAT TGN38
Specificity:	TGN38
Format:	Serum
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/500 - 1/1000
Immunofluorescence (1)	▪			1/50 - 1/100

Where this product 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 product for use in their own system using appropriate negative/positive controls.

(1) **Fixation with 3% paraformaldehyde or methanol is recommended.**

Target Species	Rat
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Serum - liquid
Antiserum Preparation	Antisera to TGN38 were raised by repeated immunisations of rabbits with highly purified antigen.
Preservative Stabilisers	0.09% Sodium Azide, 1% Bovine Serum Albumin.
Immunogen	Recombinant protein corresponding to extracellular domain of TGN38.
External Database Links	UniProt: P19814 Related reagents

Entrez Gene:

[192152](#) Tgoln1 [Related reagents](#)

Specificity **Rabbit anti Rat TGN38 antibody** recognizes a glycoprotein designated TGN38 that is found primarily in the Trans-golgi network, and has been found to be an excellent marker for this cellular organelle.

TGN38 is likely to have a role in intracellular transport. It is the homologue of human TGN46.

References

1. Ponnambalam, S. *et al.* (1996) Primate homologues of rat TGN38: primary structure, expression and functional implications. [J Cell Sci. 109 \(Pt 3\): 675-85.](#)
2. Luzio, J.P. *et al.* (1990) Identification, sequencing and expression of an integral membrane protein of the trans-Golgi network (TGN38). [Biochem J. 270 \(1\): 97-102.](#)
3. Banerji, S. *et al.* (2010) Oxysterol binding protein-dependent activation of sphingomyelin synthesis in the golgi apparatus requires phosphatidylinositol 4-kinase II α . [Mol Biol Cell. 21 \(23\): 4141-50.](#)
4. Park, B.C. *et al.* (2015) The clathrin-binding and J-domains of GAK support the uncoating and chaperoning of clathrin by Hsc70 in the brain. [J Cell Sci. 128 \(20\): 3811-21.](#)
5. Chen, A. *et al.* (2012) Regional and subcellular distribution of the receptor-targeting protein PIST in the rat central nervous system. [J Comp Neurol. 520 \(5\): 889-913.](#)
6. González C *et al.* (2016) Axons provide the secretory machinery for trafficking of voltage-gated sodium channels in peripheral nerve. [Proc Natl Acad Sci U S A. 113 \(7\): 1823-8.](#)
7. Zuidscherwoude, M. *et al.* (2015) The tetraspanin web revisited by super-resolution microscopy. [Sci Rep. 5: 12201.](#)

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.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet Documentation #10082 available at: <https://www.bio-rad-antibodies.com/uploads/MSDS/10082.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR54...) [HRP](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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