

Datasheet: AHP1586

Description:	RABBIT ANTI HUMAN TGN46
Specificity:	TGN46
Other names:	TGOLN2
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 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) Fixation of tissues with 3% paraformaldehyde or methanol is recommended prior to using this antibody on immunofluorescence.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Primate</p> <p>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.</p>
Product Form	Serum - liquid

Antiserum Preparation Antisera to human TGN46 were raised by repeated immunisation of rabbits with highly

purified recombinant human TGN46.

Buffer Solution Phosphate buffered saline

Preservative <0.1% Sodium Azide (NaN₃)
Stabilisers 0.5% Bovine Serum Albumin
50% Glycerol

Immunogen Recombinant human TGN46.

External Database Links

UniProt:

[O43493](#)

[Related reagents](#)

Entrez Gene:

[10618](#)

TGOLN2

[Related reagents](#)

Synonyms TGN46, TGN51

RRID AB_2303333

Specificity **Rabbit anti Human TGN46 antibody** recognizes Trans-Golgi network integral membrane protein 2, also known as TGN46, TGN38 homolog or Trans-Golgi network protein TGN51. TGN46 is a 480 amino acid ~110kDa single pass type I transmembrane glycoprotein associated with the trans golgi network membrane. TGN46 has been reported as being the best available marker for human trans-Golgi network.

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. Prescott, A.R. *et al.* (1997) Distinct compartmentalization of TGN46 and beta 1,4-galactosyltransferase in HeLa cells. [Eur J Cell Biol. 72 \(3\): 238-46.](#)
3. Sandri, C. *et al.* (2012) The R-Ras/RIN2/Rab5 complex controls endothelial cell adhesion and morphogenesis via active integrin endocytosis and Rac signaling. [Cell Res. 22 \(10\): 1479-501.](#)
4. Aydin, I. *et al.* (2014) Large scale RNAi reveals the requirement of nuclear envelope breakdown for nuclear import of human papillomaviruses. [PLoS Pathog. 10 \(5\): e1004162.](#)
5. Cerqueira, C. *et al.* (2015) Kallikrein-8 Proteolytically Processes Human Papillomaviruses in the Extracellular Space To Facilitate Entry into Host Cells. [J Virol. 89 \(14\): 7038-52.](#)
6. Striebinger, H. *et al.* (2016) Subcellular Trafficking and Functional Relationship of the HSV-1 Glycoproteins N and M. [Viruses. 8 \(3\): pii: E83.](#)
7. Groux-Degroote, S. *et al.* (2018) The extended cytoplasmic tail of the human B4GALNT2 is critical for its Golgi targeting and post-Golgi sorting. [FEBS J. 285 \(18\): 3442-63.](#)
8. Song, O.R. *et al.* (2018) ArfGAP1 restricts *Mycobacterium tuberculosis* entry by controlling the actin cytoskeleton. [EMBO Rep. 19 \(1\): 29-42.](#)
9. Sugatha, J. *et al.* (2023) Insights into cargo sorting by SNX32 and its role in neurite

outgrowth. [Elife. 12May 09 \[Epub ahead of print\]](#).

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: <https://www.bio-rad-antibodies.com/SDS/AHP1586>
10048

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Recommended Useful Reagents

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

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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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