

Datasheet: AHP1586

**BATCH NUMBER 166922**

<b>Description:</b>	RABBIT ANTI HUMAN TGN46
<b>Specificity:</b>	TGN46
<b>Other names:</b>	TGOLN2
<b>Format:</b>	Serum
<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			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/500 - 1/000
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.**

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

**Antiserum Preparation** Antisera to human TGN46 were raised by repeated immunisation of rabbits with highly purified recombinant human TGN46.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> ) 0.5% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Recombinant human TGN46.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">O43493</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">10618</a> TGN46 <a href="#">Related reagents</a>
<b>Synonyms</b>	TGN46, TGN51
<b>RRID</b>	AB_2303333
<b>Specificity</b>	<b>Rabbit anti Human TGN46 antibody</b> 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.
<b>References</b>	<ol style="list-style-type: none"><li>1. Ponnambalam, S. <i>et al.</i> (1996) Primate homologues of rat TGN38: primary structure, expression and functional implications. <a href="#">J Cell Sci. 109 ( Pt 3): 675-85.</a></li><li>2. Prescott, A.R. <i>et al.</i> (1997) Distinct compartmentalization of TGN46 and beta 1,4-galactosyltransferase in HeLa cells. <a href="#">Eur J Cell Biol. 72 (3): 238-46.</a></li><li>3. Sandri, C. <i>et al.</i> (2012) The R-Ras/RIN2/Rab5 complex controls endothelial cell adhesion and morphogenesis via active integrin endocytosis and Rac signaling. <a href="#">Cell Res. 22 (10): 1479-501.</a></li><li>4. Aydin, I. <i>et al.</i> (2014) Large scale RNAi reveals the requirement of nuclear envelope breakdown for nuclear import of human papillomaviruses. <a href="#">PLoS Pathog. 10 (5): e1004162.</a></li><li>5. Cerqueira, C. <i>et al.</i> (2015) Kallikrein-8 Proteolytically Processes Human Papillomaviruses in the Extracellular Space To Facilitate Entry into Host Cells. <a href="#">J Virol. 89 (14): 7038-52.</a></li><li>6. Striebinger, H. <i>et al.</i> (2016) Subcellular Trafficking and Functional Relationship of the HSV-1 Glycoproteins N and M. <a href="#">Viruses. 8 (3): pii: E83.</a></li><li>7. Groux-Degroote, S. <i>et al.</i> (2018) The extended cytoplasmic tail of the human B4GALNT2 is critical for its Golgi targeting and post-Golgi sorting. <a href="#">FEBS J. 285 (18): 3442-63.</a></li><li>8. Song, O.R. <i>et al.</i> (2018) ArfGAP1 restricts <i>Mycobacterium tuberculosis</i> entry by controlling the actin cytoskeleton. <a href="#">EMBO Rep. 19 (1): 29-42.</a></li></ol>

**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.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10048 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1586">https://www.bio-rad-antibodies.com/SDS/AHP1586</a> 10048
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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