

Datasheet: AHP500

Description:	SHEEP 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	▪			1/50 - 1/100
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/500 - 1/000
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

Human

Species Cross Reactivity

Reacts with: Primate

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

Serum, diluted - liquid

Antiserum Preparation

Antisera to human TGN46 were raised by repeated immunisation of sheep with highly purified antigen.

Buffer Solution	Phosphate buffered saline
Preservative	<0.1% Sodium Azide (NaN ₃)
Stabilisers	25% Glycerol 1% Bovine Serum Albumin
Immunogen	Recombinant human TGN46.
External Database Links	<p>UniProt: O43493 Related reagents</p> <p>Entrez Gene: 10618 TGOLN2 Related reagents</p>
Synonyms	TGN46, TGN51
RRID	AB_324049
Specificity	<p>Sheep anti Human TGN46 antibody recognizes trans-Golgi network integral membrane protein 2 (TGOLN2), also known as TGN38 homolog, TGN46, TGN48 or trans-Golgi network protein TGN51. TGN46 is a 437 amino acid glycoprotein localized to the trans-Golgi network. TGN46 has been reported as being the best available marker for human trans-Golgi network.</p> <p>TGN46 is a heavily glycosylated protein of around 110-120 kDa. Multiple isoforms of TGN46 are generated by alternative splicing differing in sequence at the C-terminal portion. Sheep anti Human TGN46 antibody is expected to recognize all identified isoforms.</p>
Immunohistology	Fixation with 3% paraformaldehyde or methanol/acetone is recommended.
References	<ol style="list-style-type: none"> 1. Prescott AR <i>et al.</i> (1997) Distinct compartmentalization of TGN46 and beta 1,4-galactosyltransferase in HeLa cells. Eur J Cell Biol. 72 (3): 238-46. 2. van Dam, E.M. <i>et al.</i> (2002) Dynamin-dependent transferrin receptor recycling by endosome-derived clathrin-coated vesicles. Mol Biol Cell. 13: 169-82. 3. Salahpour, A. <i>et al.</i> (2004) Homodimerization of the beta2-adrenergic receptor as a prerequisite for cell surface targeting. J Biol Chem. 279 (32): 33390-7. 4. Drakesmith, H. <i>et al.</i> (2005) HIV-1 Nef down-regulates the hemochromatosis protein HFE, manipulating cellular iron homeostasis. Proc Natl Acad Sci U S A. 102 (31): 11017-22. 5. Mills, I.G. <i>et al.</i> (2005) Huntingtin interacting protein 1 modulates the transcriptional activity of nuclear hormone receptors. J Cell Biol. 170 (2): 191-200. 6. Mills, I.G. <i>et al.</i> (2005) Huntingtin interacting protein 1 modulates the transcriptional activity of nuclear hormone receptors. J Cell Biol. 170: 191-200. 7. Vuillier, F. <i>et al.</i> (2005) Lower levels of surface B-cell-receptor expression in chronic lymphocytic leukemia are associated with glycosylation and folding defects of the mu and CD79a chains. Blood. 105 (7): 2933-40.

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Further Reading 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.](#)

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/AHP500>
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