

Product datasheet for **AP05793SU-N**

Tgoln2 (Extracell. Dom) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunofluorescence: 1/50-1/100 (Fixation with 3% paraformaldehyde or methanol is recommended).
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant fusion protein corresponding to extracellular domain of TGN38.
Specificity:	This antibody recognises 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.
Formulation:	State: Serum State: Liquid Serum Stabilizer: 1% BSA Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	trans-golgi network protein 2
Database Link:	Entrez Gene 22135 Mouse Entrez Gene 192152 Rat P19814



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Background:

The trans-Golgi network (TGN) is part of the secretory pathway of eukaryotic cells which is distinct from the Golgi stack. The TGN is important in the later stages of protein secretion where it seems to play a key role in the sorting and targeting of secreted proteins to the correct destination. Some surface receptors recycle between the cell surface and the TGN, suggesting that the TGN is also important in endocytic pathways. TGN46 cycles between the trans-Golgi network and the cell surface returning via endosomes. It is thought to be involved in regulating membrane traffic to and from trans-Golgi network. Three splice isoforms are found: TGN46, TGN48 and TGN51. Isoform TGN46 is widely expressed, isoform TGN48 is barely expressed in embryonic kidney and promyelocytic cells whilst isoform TGN51 is more abundant in fetal lung and kidney. TGN46 is a human specific protein. The rodent homologue of TGN46 is known as TGN38.

Synonyms:

Ttgn1, Golgi Marker, FocusOn119 (Tgoln2, Tgoln1)