

Mouse Trans Golgi Network Protein 2 (TGOLN2) ELISA Kit-Sandwich

Cat. No.: EK6F796

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Trans Golgi Network Protein 2 (TGOLN2) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse TGOLN2 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Trans Golgi Network Protein 2 (TGOLN2).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.32-20 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Trans-Golgi network integral membrane protein 2 (Tgoln2) is thought to play a role in regulating membrane traffic to and from the trans-Golgi network. In mice, Tgoln2 has various roles, including regulating T cell function, participating in the psychological stress response, influencing lipid metabolism, and potentially playing a role in viral infection and disease. Tgoln2 supports effector T cell function by stabilizing the actin skeleton at the immune synapse. Mice deficient in Tgoln2 produce significantly lower levels of IL-2 following T cell activation, highlighting its importance for normal T cell function. During psychological stress, Tgoln2 expression levels correlate with the coping abilities of mice. In the amygdala of stress-susceptible mice, Tgoln2 expression is significantly upregulated, a change linked to the targeting by microRNA-24-3p, suggesting that Tgoln2 is involved in the molecular regulatory network that governs stress responses.

Target/Biomarker	Mouse TGOLN2
Target Synonym	TGN51; TGN46; TGN48; TGN38; TTGN2; Trans-Golgi Network Protein

Gene ID [22135](#)

UniProt ID [Q62314](#)

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.