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Datasheet for ABIN7538793 **SLC1A2 Protein (YFP tag)**

Overview

Quantity:	100 µg
Target:	SLC1A2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	cVLP
Purification tag / Conjugate:	This SLC1A2 protein is labelled with YFP tag.
Application:	Western Blotting (WB), ELISA, Nanoparticle Tracking Analysis (NTA)

Product Details

Purpose:	Chimeric VLP of SARS-CoV-2 (M+E+N) EAAT2-EYFP
Sequence:	AA 1 - 506 (c-terminal truncation)
Characteristics:	Chimeric SARS-CoV-2 virus-like particles (cVLP) were produced in HEK cells by co-expression of the membrane-, envelope- and nucleoprotein with a membrane bound target protein. The VLPs do not contain the viral genome, cannot replicate and are not infectious.
Purification:	Polyethylene glycol precipitation
Biological Activity Comment:	active

Target Details

Target:	SLC1A2
Alternative Name:	Excitatory amino acid transporter 2 (SLC1A2 Products)

Target Details

Background: Excitatory amino acid transporter 2 (EAAT2), also known as solute carrier family 1 member 2 (SLC1A2) and glutamate transporter 1 (GLT-1), is encoded by the SLC1A2 gene in humans. The membrane-bound protein is the main transporter that removes the excitatory neurotransmitter glutamate from the extracellular space at the synapses in the central nervous system. Dysregulation of EAAT2 is associated with neurodegenerative diseases and excitotoxicity. SARS-CoV-2 (Severe acute respiratory syndrome coronavirus type 2) is a coronavirus (genus: Betacoronavirus, subgenus: Sarbecovirus) that was identified as the cause of COVID-19 disease in early 2020.

Pathways: [Dicarboxylic Acid Transport](#)

Application Details

Application Notes: Applications: Immunogenic antigen, antigen for ELISA and Western blot.
Western blot: 1-10 µg, ELISA: 1-5 µg/mL

Comment: Virus-like Particles are multiprotein complexes that resemble a native virus, but lack the genetic information. Therefore, VLPs are safe to handle in numerous fields of applications. For example, VLPs can be applied as antigen in serological assays (e.g. ELISA), or serve as reference material to standardize the performance of different diagnostic tests (e.g. rapid antigen tests or ELISA). Due to the self-adjuvanting properties of VLPs is the most common application of VLPs the use as antigen for immunizations for vaccine development or antibody discovery campaigns.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: PBS

Storage: -80 °C

Storage Comment: - 80°C