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Mouse Biogenesis of Lysosome-Related Organelles Complex 1 Subunit 1 (BLOC1S1) ELISA Kit-Sandwich

Cat. No.: EK6F800

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Biogenesis of Lysosome-Related Organelles Complex 1 Subunit 1 (BLOC1S1) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse BLOC1S1 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 Biogenesis of Lysosome-Related Organelles Complex 1 Subunit 1 (BLOC1S1).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 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

Biogenesis of lysosome-related organelles complex 1 subunit 1 (BLOC1S1) is a component of the BLOC-1 complex, essential for the normal formation of lysosome-related organelles (LROs), including platelet dense granules and melanosomes. Alongside the AP-3 complex, BLOC-1 is crucial for directing membrane protein cargos into vesicles formed at cell bodies, facilitating their delivery into neurites and nerve terminals. BLOC1S1 is a vital part of the lysosome-associated membrane protein complex (BLOC-1), which plays a significant role in the biogenesis, maintenance of homeostasis, and function of endolysosomes and mitochondria. In the hippocampus of mice, loss of BLOC1S1 results in altered amino acid and phospholipid metabolism, potentially impacting neuronal homeostasis and function. Additionally, BLOC1S1 deficiency is linked to abnormalities in retinal pigment epithelial cells and the development of age-related macular degeneration (AMD).

Target/Biomarker	Mouse BLOC1S1
Target Synonym	BLOC1S1; BLOS1; GCN5L1; RT14Biogenesis of lysosome-related organelles complex 1 subunit 1; BLOC-1 subunit 1; GCN5-like protein 1; Protein RT14
Gene ID	14533
UniProt ID	O55102

Shipping and Storage

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

Reference

Strunz, Tobias *et al.* "Learning from Fifteen Years of Genome-Wide Association Studies in Age-Related Macular Degeneration." *Cells* vol. 9,10 2267. 10 Oct. 2020.