

Mouse TBC1 domain family member 1 (TBC1D1) ELISA kit-Quantitative sandwich

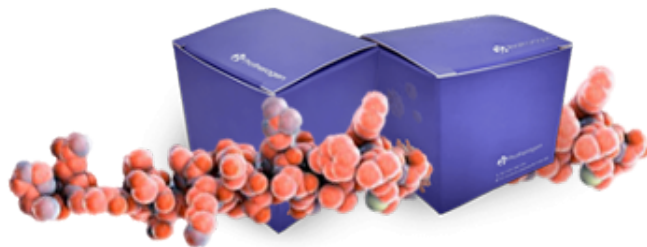
Cat. No.:	0126WXX-1871
Assay Type:	Quantitative sandwich ELISA
Target Species:	Mouse
Assay Target:	TBC1D1
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Mouse TBC1 domain family member 1 (TBC1D1) ELISA kit-Quantitative sandwich is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of TBC1D1 in mouse samples with a range of 78-5000 pg/mL and a minimum detectable dose (sensitivity) of 39.7 pg/mL. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on TBC1D1 antibody-TBC1D1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TBC1D1 antigen targets in samples.
Background	TBC1D1 is a GTPase-activating protein (GAP) that primarily acts on Rab family small GTPases. Its core function is to negatively regulate the transport of GLUT4 transporter vesicles to the cell membrane in response to insulin or exercise stimulation. As a key regulator of glucose homeostasis, it promotes the onset and progression of obesity by modulating skeletal muscle sensitivity to insulin.
Synonyms	KIAA1108
Formula Weight	132,008 Da
Applications	Mouse TBC1 domain family member 1 (TBC1D1) ELISA kit-Quantitative sandwich is used to quantify TBC1D1 in mouse samples, providing data to support research in a wide range of areas, including metabolism, signal transduction, obesity, and others.
Research Area	Metabolism; Signal transduction; Obesity

Specification



Sample Type	Mouse samples
Detection Range	78-5000 pg/mL
Sensitivity	39.7 pg/mL
Precision (Intra-assay)	CV≤5.8%
Precision (Inter-assay)	CV≤8.4%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Recovery	1.15
Storage	Store at -20°C.