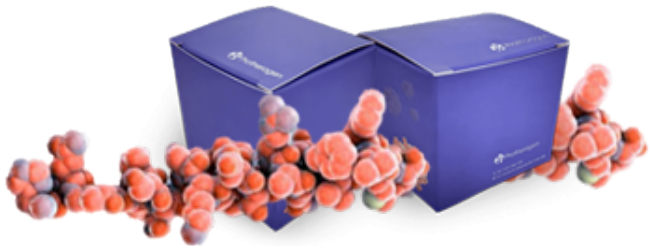
Protheragen
Obesity



Pigeon regulatory solute carrier protein family 1 member 1 (RSC1A1) ELISA kit

Cat. No.:	0126WXX-1732
Assay Type:	Quantitative ELISA
Target Species:	Pigeon
Assay Target:	RSC1A1
Size:	1 kit

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

Product Overview

Description	Pigeon regulatory solute carrier protein family 1 member 1 (RSC1A1) ELISA kit is an ELISA-based *in vitro* research tool designed specifically for the quan titative detection of RSC1A1 in pigeon samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on RSC1A1 antibody-RSC1A1 an tigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RSC1A1 antigen targets in samples.
Background	RSC1A1 is a protein primarily localized to the Golgi apparatus and plasma membra ne, whose core function is to act as a regulator of solute carrier (SLC) protein s. RSC1A1 specifically targets sodium-glucose cotransporter 1 (SLC5A1) and organ ic cation transporter 2 (SLC22A2), regulating their transcription and membrane t ransport by inhibiting vesicle release. Because RSC1A1 exhibits glucose-dependen t inhibition, it plays an indirect role in regulating cellular glucose uptake an d metabolic homeostasis. In obesity research, RSC1A1 and its regulated SLC prote ins are considered pivotal junctions linking nutrient transport to insulin resis tance: SLC5A1 governs glucose absorption in the gut, while SLC22A2 is implicated in drug metabolism and toxin clearance. Thus, by regulating the availability of these transporters, RSC1A1 indirectly influences energy absorption efficiency a nd metabolic toxicity, positioning it as a potential regulatory node for studyin g obesity and related metabolic disorders.

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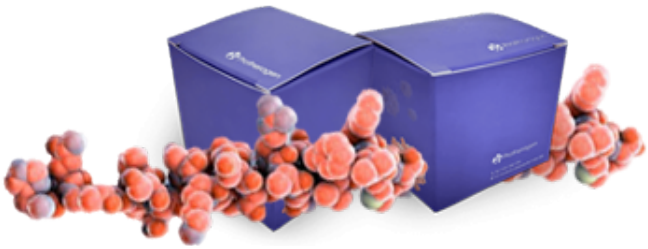

Synonyms	Transporter regulator RS1 (hRS1); NIPSNAP4; SLC5A1RP; RSC1; RSC1A
Formula Weight	66,790 Da
Applications	Pigeon regulatory solute carrier protein family 1 member 1 (RSC1A1) ELISA kit is used to quantify RSC1A1 in pigeon samples, providing data to support research i n a wide range of areas, including metabolism, membrane protein trafficking, tra nscriptional and epigenetic regulation, obesity, and others.
Research Area	Metabolism; Membrane protein trafficking; Transcriptional and epigenetic regulat ion; Obesity

Specification

Sample Type	Pigeon samples
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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