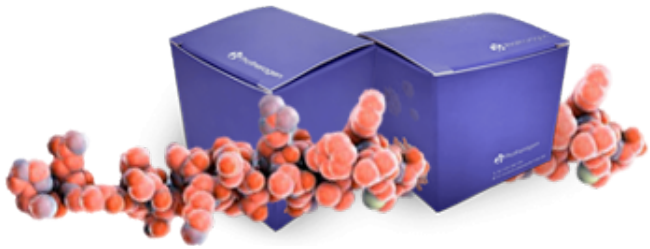
Protheragen
Obesity



# Canine BTB/POZ domain-containing protein KCTD15 (KCTD15) ELISA kit

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| **Cat. No.:** | 0126WXX-737 |
| **Assay Type:** | Quantitative ELISA |
| **Target Species:** | Canine |
| **Assay Target:** | KCTD15 |
| **Size:** | 48T; 96T |

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

## Product Overview

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| **Description** | Canine BTB/POZ domain-containing protein KCTD15 (KCTD15) ELISA kit is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of KCTD15 in canine samples. The kit is highly sensitive and easy to use . |
| **Assay Principle** | The ELISA analytical biochemical technique is based on KCTD15 antibody-KCTD15 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect KCTD15 antigen targets in samples. |
| **Background** | KCTD15 is a protein containing a BTB domain, primarily functioning to mediate protein interactions and believed to play a role in cellular signaling and neurodevelopmental processes. The most direct and significant association of KCTD15 with obesity research stems from genome-wide association studies (GWAS). Multiple large-scale population studies have identified the KCTD15 locus as one of the genes significantly associated with variations in human BMI (body mass index) and general obesity susceptibility. Although its precise molecular mechanisms remain under investigation, this association with KCTD15 is thought to primarily function through the central nervous system. It may participate in regulating neural pathways within the hypothalamus that influence appetite, satiety, or energy intake, thereby affecting an individual's weight propensity and energy homeostasis. |
| **Synonyms** | Potassium channel tetramerisation domain containing 15 |
| **Formula Weight** | 26,476 Da |

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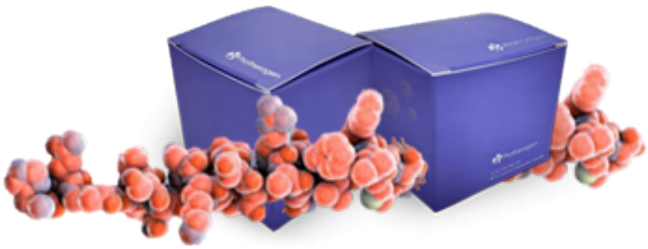

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| **Applications** | Canine BTB/POZ domain-containing protein KCTD15 (KCTD15) ELISA kit is used to qu antify KCTD15 in serum, plasma, cell culture supernatants, body fluid, tissue ho mogenate of canine, providing data to support research in a wide range of areas, including neurobiology, signal transduction, obesity, *etc*. |
| **Research Area** | Neurobiology; Signal transduction; Obesity |

## Specification

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| **Sample Type** | Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate |
| **Cross-reactivity** | No significant cross-reactivity or interference was observed. |
| **Storage** | Store at 2-8°C. |

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