

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Lactase-like Protein/LCTL in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse Lactase-like Protein/LCTL is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Lactase-like Protein/LCTL Arg23-Glu541 Accession # Q6UWM7
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

LCTL (also Lactase-like Protein and Klotho/lactase-phlorizin hydrolase-related protein/KLPH) is a 62 kDa (predicted) member of the glycosyl hydrolase 1 family of proteins. It is expressed in skin and kidney, and may participate in endocrine FGF19 subfamily signaling pathways. Mature human LCTL is a 546 amino acid (aa) type I transmembrane protein that appears to be present in the ER. It contains an apparently nonfunctional glycosidase domain (aa 33-503), plus a very short five aa cytoplasmic segment that may function as an ER-retention signal. There is one potential alternative start site at Met174. Over aa 23-541, human LCTL shares 86% aa identity with mouse LCTL.

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