

# Mouse Leucine-rich repeat LGI family member 3 (LGI3) ELISA Kit

Catalog No: #EK10092

Package Size: #EK10092-1 48T #EK10092-2 96T

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## Description

Product Name	Mouse Leucine-rich repeat LGI family member 3 (LGI3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	LGIL4;
Accession No.	Q8K406
Uniprot	Q8K406
GeneID	213469;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.054 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200  $\mu$ L

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LGI3 in samples. An antibody specific for LGI3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLGI3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LGI3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LGI3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The deduced 549-amino acid protein contains a N-terminal signal peptide, a putative transmembrane region, and 1 partial and 4 complete leucine-rich repeats (LRRs). The LRRs are flanked on both sides by cysteine-rich regions, and the N-terminal cysteine-rich region contains a motif conserved in LGIs. LGI3 shares significant similarity with LGI1, LGI2, and LGI4. Semiquantitative PCR detected LGI3 expression in all tissues examined, with highest levels in brain and lung.

By in situ hybridization of adult mouse brain, Senechal et al. (2005) showed that Lgi3 was expressed at low levels in most brain regions with high levels in the facial nerve nucleus. Lgi3 was secreted in transfected 293T cells.

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Note: This product is for in vitro research use only