

Product datasheet

Recombinant Human Lgi1/EPT protein ab152963

1 Image

Description

<b>Product name</b>	Recombinant Human Lgi1/EPT protein
<b>Expression system</b>	Wheat germ
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>MESERSKRMGNACIPLKRIAYFLCLLSALLLTEGKKPAKPK            CPAVCTCTK            DNALCENARSIPRTVPPDVISLSFVRSGFTEISEGSFLFTP            SLQLLLFTS            NSFDVISDDAFIGLPHLEYLFIENNNIKSISRHTFRGLKSLIHL            SLANNN            LQTLPKDIFKGLDSL TNVDLRGNSFNCDCKLKWLVWLG            HTNATVEDIYC            EGPPEYKKRKINSLSSKDFDCIITEFAKSQDLPYQSLSIDTF            SYLNDEYV            VIAQPFTGKCIFLEWDHVEKTFRNYDNITGTSTVVCKPIVET            QLYVIVA            QLFGGSHYKRDSFANKFIKQDIEILKIRKPNDIETFKIENNW            YFVVAD            SSKAGFTTYKWNGNGFYSHQSLHAWYRDTDVEYLEMRT            PQTLRTPHLI            LSSSSQRPVIYQWNKATQLFTNQTDIPNMEDVYAVKHFSV            KGDVYCLTR            FIGDSKVMKWGGSSFQDIQRMP SRGSMVFQPLQINNYQY            AILGSDYSFTQ            VYNWDAEKAKFVKFQELNVQAPRSFTHVSINKRNFLFAS            SFKGNTQIYKH VVDLSA</p>
<b>Amino acids</b>	1 to 557
<b>Tags</b>	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab152963** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as Lgi1.

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## Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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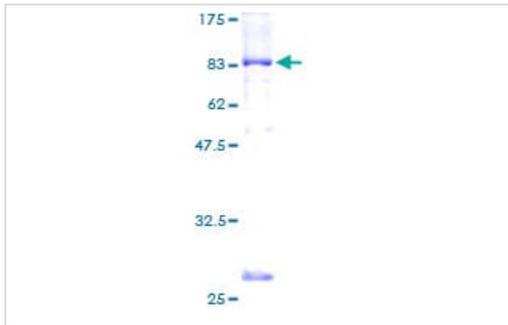
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## General Info

<b>Function</b>	Regulates voltage-gated potassium channels assembled from KCNA1, KCNA4 and KCNAB1. It slows down channel inactivation by precluding channel closure mediated by the KCNAB1 subunit. Ligand for ADAM22 that positively regulates synaptic transmission mediated by AMPA-type glutamate receptors (By similarity). Plays a role in suppressing the production of MMP1/3 through the phosphatidylinositol 3-kinase/ERK pathway. May play a role in the control of neuroblastoma cell survival.
<b>Tissue specificity</b>	Predominantly expressed in neural tissues, especially in brain. Expression is reduced in low-grade brain tumors and significantly reduced or absent in malignant gliomas. Isoform 1 is absent in the cerebellum and is detectable in the occipital cortex and hippocampus; higher amounts are observed in the parietal and frontal cortices, putamen, and, particularly, in the temporal neocortex, where it is 3.5 times more abundant than in the hippocampus (at protein level). Isoform 3 shows the highest expression in the occipital cortex and the lowest in the hippocampus (at protein level).
<b>Involvement in disease</b>	Defects in LGI1 are the cause of lateral temporal lobe epilepsy autosomal dominant (ADLTE) [MIM:600512]; also known as autosomal dominant partial epilepsy with auditory features (ADPEAF). ADLTE is a form of epilepsy characterized by partial seizures, usually preceded by auditory signs.
<b>Sequence similarities</b>	Contains 7 EAR repeats. Contains 3 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 LRRNT domain.
<b>Post-translational modifications</b>	Glycosylated.
<b>Cellular localization</b>	Secreted. Cell junction > synapse. Isoform 1 but not isoform 2 is secreted. Isoform 1 is enriched in the Golgi apparatus while isoform 2 accumulates in the endoplasmic reticulum.

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## Images



ab152963 on a 12.5% SDS-PAGE stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Lgi1/EPT protein  
(ab152963)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
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