

Recombinant Human GRIA1 293 Cell Lysate

Cat. No. GRIA1-5748HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glutamate receptor, ionotropic, AMPA 1 (GRIA1), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[GRIA1 glutamate receptor, ionotropic, AMPA 1 \[Homo sapiens \]](#)

Official Symbol

GRIA1

Synonyms

GRIA1; glutamate receptor, ionotropic, AMPA 1; GLUR1; glutamate receptor 1; GluA1; GLURA; AMPA 1; glur-1; glur-A; glur-K1; AMPA-selective glutamate receptor 1; GLUH1; HBGR1; MGC133252;

Gene ID

[2890](#)

mRNA Refseq

[NM_000827](#)

Protein Refseq

[NP_000818](#)

MIM

[138248](#)

UniProt ID

[P42261](#)

**Chromosome
Location**

5q33

Pathway

Activation of AMPA receptors, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-

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specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem;
Dopaminergic synapse, organism-specific biosystem;

Function

PDZ domain binding; alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate
selective glutamate receptor activity; extracellular-glutamate-gated ion channel
activity; glutamate receptor activity; ion channel activity; kainate selective glutamate
receptor activity; protein binding; receptor activity;

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