

Recombinant Human GRIK2 293 Cell Lysate

Cat. No. GRIK2-5747HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glutamate receptor, ionotropic, kainate 2 (GRIK2), 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 GRIK2 glutamate receptor, ionotropic, kainate 2 [Homo sapiens]

Official Symbol GRIK2

Synonyms GRIK2; glutamate receptor, ionotropic, kainate 2; GLUR6; glutamate receptor, ionotropic kainate 2; GluK2; MRT6; gluR-6; bA487F5.1; glutamate receptor 6; glutamate receptor form A; glutamate receptor form B; glutamate receptor form C; glutamate receptor form D; glutamate receptor form E; excitatory amino acid receptor 4; EAA4; GLR6; GLUK6; MGC74427;

Gene ID 2898

mRNA Refseq NM_001166247

Protein Refseq NP_001159719

MIM 138244

UniProt ID Q13002

Chromosome Location 6q16.3

Pathway Activation of Ca-permeable Kainate Receptor, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific

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biosystem; Activation of Na-permeable Kainate Receptors, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem; Ionotropic activity of Kainate Receptors, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem;

Function

PDZ domain binding; extracellular-glutamate-gated ion channel activity; ion channel activity; kainate selective glutamate receptor activity; protein homodimerization activity; receptor activity; ubiquitin conjugating enzyme binding; ubiquitin protein ligase binding;

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