

Recombinant Mouse Gja1 Protein, His-tagged

Cat. No. Gja1-951M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Gja1 Protein (Ser244-Ile382) with His tag was expressed in 293F.
Species	Mouse
Source	HEK293
ProteinLength	Ser244-Ile382
Description	Enables several functions, including beta-tubulin binding activity; glutathione transmembrane transporter activity; and scaffold protein binding activity. Involved in several processes, including animal organ development; cellular response to amyloid-beta; and positive regulation of cold-induced thermogenesis. Acts upstream of or within several processes, including circulatory system development; regulation of gene expression; and regulation of membrane depolarization. Located in several cellular components, including fascia adherens; gap junction; and lateral plasma membrane. Is expressed in several structures, including alimentary system; embryo ectoderm; genitourinary system; sensory organ; and skin. Used to study oculodentodigital dysplasia. Human ortholog(s) of this gene implicated in several diseases, including autosomal recessive craniometaphyseal dysplasia; congenital heart disease (multiple); erythrokeratoderma variabilis (multiple); oculodentodigital dysplasia; and palmoplantar keratoderma and congenital alopecia 1. Orthologous to human GJA1 (gap junction protein alpha 1).

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.6 kDa; Accurate Molecular Mass: 21/22-35 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Gja1 gap junction protein, alpha 1 [Mus musculus (house mouse)]
Official Symbol	Gja1
Synonyms	GJA1; gap junction protein, alpha 1; gap junction alpha-1 protein; connexin 43; connexin-43; alpha 1 connexin; gap junction 43 kDa heart protein; gap junction membrane channel protein alpha 1; Cx43; Npm1; Cnx43; Gja-1; AU042049;

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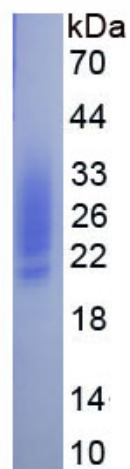
AW546267; Cx43alpha1; connexin43;

Gene ID 14609

mRNA Refseq NM_010288

Protein Refseq NP_034418

UniProt ID P23242



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