Recombinant Human SCN2A 293 Cell Lysate

Cat. No. SCN2A-2030HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for sodium channel, voltage-gated, type II, alpha subunit (SCN2A), 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	SCN2A sodium channel, voltage-gated, type II, alpha subunit [Homo sapiens]
Official Symbol	SCN2A
Synonyms	HBA; NAC2; BFIC3; BFIS3; BFNIS; HBSCI; EIEE11; HBSCII; Nav1.2; SCN2A1; SCN2A2; Na(v)1.2; sodium channel protein type 2 subunit alphaHBSC II; voltage-gated sodium channel subtype II; sodium channel protein type II subunit alpha; sodium channel protein brain II subunit alpha; voltage-gated sodium channel subunit alpha Nav1.2; sodium channel protein, brain type 2 alpha subunit; sodium channel, voltage-gated, type II, alpha 1 polypeptide; sodium channel, voltage-gated, type II, alpha 2 polypeptide
Gene ID	6326
mRNA Refseq	NM_021007
Protein Refseq	NP_066287
MIM	182390
UniProt ID	Q99250
Chromosome Location	2q24.3

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Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; L1CAM interactions, organism-specific biosystem
Function	voltage-gated sodium channel activity

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