

Recombinant Human IMPA1 293 Cell Lysate

Cat. No. IMPA1-5214HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for inositol(myo)-1(or 4)-monophosphatase 1 (IMPA1), 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.
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

 Tel: 1-631-559-9269 1-516-512-3133

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	IMPA1 inositol(myo)-1(or 4)-monophosphatase 1 [Homo sapiens]
Official Symbol	IMPA1
Synonyms	IMPA1; inositol(myo)-1(or 4)-monophosphatase 1; IMPA; inositol monophosphatase 1; IMP 1; IMPase 1; inositol-1(or 4)-monophosphatase 1; lithium-sensitive myo-inositol monophosphatase A1; IMP;
Gene ID	3612
mRNA Refseq	NM_001144878
Protein Refseq	NP_001138350
MIM	602064
UniProt ID	P29218
Chromosome Location	8q21.1-q21.3
Pathway	D-myo-inositol (1,4,5)-trisphosphate degradation, organism-specific biosystem; D-myo-inositol (1,4,5)-trisphosphate degradation, conserved biosystem; Inositol phosphate metabolism, organism-specific biosystem; Inositol phosphate metabolism, conserved biosystem; Inositol phosphate metabolism, Ins(1,3,4,5)P4 =>Ins(1,3,4)P3 => myo-inositol, organism-specific biosystem;

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Function

hydrolase activity; inositol monophosphate 1-phosphatase activity; inositol monophosphate 1-phosphatase activity; inositol monophosphate 3-phosphatase activity; inositol monophosphate 4-phosphatase activity; metal ion binding; protein homodimerization activity;

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