

Recombinant Human PDE4A 293 Cell Lysate

Cat. No. PDE4A-3352HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for phosphodiesterase 4A, cAMP-specific (phosphodiesterase E2 duncce homolog, Drosophila) (PDE4A), transcript variant 4 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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	PDE4A phosphodiesterase 4A, cAMP-specific [Homo sapiens]
Official Symbol	PDE4A
Synonyms	PDE4A; phosphodiesterase 4A, cAMP-specific; DPDE2, phosphodiesterase 4A, cAMP specific (dunce (Drosophila) homolog phosphodiesterase E2); cAMP-specific 3,5-cyclic phosphodiesterase 4A; phosphodiesterase E2 dunce homolog (Drosophila); phosphodiesterase isozyme 4; phosphodiesterase 4A, cAMP-specific (dunce; phosphodiesterase E2 dunce homolog, Drosophila; PDE4; DPDE2; PDE46;
Gene ID	5141
mRNA Refseq	NM_001111307
Protein Refseq	NP_001104777
MIM	600126
UniProt ID	P27815
Chromosome Location	19p13.2
Pathway	DARPP-32 events, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Morphine

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addiction, organism-specific biosystem; Morphine addiction, conserved biosystem;
Opioid Signalling, organism-specific biosystem;

Function

3,5-cyclic-AMP phosphodiesterase activity; hydrolase activity; metal ion binding;
phosphoric diester hydrolase activity; protein binding;

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