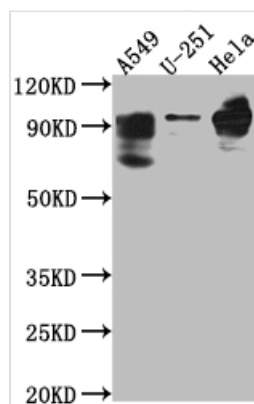




PDE4D Recombinant Monoclonal Antibody

Product Code	CSB-RA996952A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q08499
Immunogen	A synthesized peptide derived from human PDE4D
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:5000
Relevance	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Signal transduction
Gene Names	PDE4D
Clone No.	4D4

Image



Western Blot

Positive WB detected in: THP-1 whole cell lysate

All lanes: PDE4D antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 92, 77, 69, 67, 58, 85, 24, 60, 78, 77, 85, 25 kDa

Observed band size: 92 kDa

Description

PDE4 cyclic nucleotide phosphodiesterases reduce 3', 5' cAMP levels in the central nervous system (CNS) and thereby regulate PKA activity and the phosphorylation of CREB, fundamental to depression, cognition, and learning and memory. Mutations in PDE4D in humans predispose to acrodysostosis,



associated with cognitive and behavioral deficits. PDE4D gene inactivation in mice results in progressive cardiomyopathy, accelerated heart failure after myocardial infarction, and cardiac arrhythmias. PDE4D also plays a role in the regulation of vascular permeability.

The production of this recombinant PDE4D antibody started with immunization. And then the workflow included B cell harvest and enrichment; import single B cell; assays to identify the specificity, affinity & functionality of the cell; export the single B cell; cDNA synthesis and sequencing; express the PDE4D antibody in mammalian cells. The target PDE4D antibody was validated in ELISA, WB.