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Research Use Only. Not for diagnostic or therapeutic use.

Storage: For long-term storage keep aliquots at -20°C. (Store no longer than 12 months at 4°C). Minimize freezing and thawing.

EB07046 - Goat Anti-PDE4D Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: phosphodiesterase 4D, FLJ97311, DKFZp686M11213, phosphodiesterase 4D, cAMP-specific (dunce (Drosophila)-homolog phosphodiesterase E3), dunce-like phosphodiesterase E3, cAMP-specific phosphodiesterase PDE4D6, cAMP-specific phosphodiesterase 4D, STRK1, PDE4DN2, HSPDE4D, DPDE3, HGNC:8783, phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, Drosophila), PDE4D

Official Symbol: PDE4D

Accession Number(s): NP_001184151.1; NP_001184150.1; NP_006194.2; NP_001098101.1; NP_001184152.1; NP_001159371.1

Human GeneID(s): [5144](#)

Important Comments: This antibody is expected to recognize all reported isoforms.

Immunogen

Peptide with sequence QPEACVIDDRSPDT, from the C Terminus of the protein sequence according to NP_001184151.1; NP_001184150.1; NP_006194.2; NP_001098101.1; NP_001184152.1; NP_001159371.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

Western blot: Approx 70+80+90kDa bands observed in lysates of cell line A549. In transfected COS1 transiently expressing PDE4D1 and PDE4D3 bands of approx. 68kDa and 95kDa are observed. These bands are not observed in the untransfected COS1. In transfected HEK293 transiently expressing PDE4D2 multi bands from approx. 55kDa to 80kDa are observed. These bands are not observed in the non-transfected HEK293. Calculated MW of 91.1kDa according to PDE4D1 (NP_001098101.1), 76.5kDa according to PDE4D2 (NP_006194.2) and 84.7kDa according to PDE4D3 (NP_001159371.1). Recommended concentration: 0.1-0.3µg/ml.

ELISA: This antibody has been successfully used in ELISA as described in the following paper: Bazhin et al, Mol Immunol. 2010 Jan;47(4):678-84.; PMID: 19939455.

Species Reactivity

Tested: Human, Mouse

Expected from sequence similarity: Human

Specific Reference

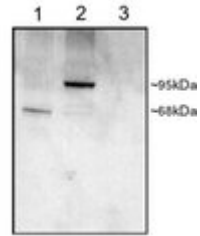
This antibody has been successfully used in the following papers:

Bazhin AV, Kahnert S, Kimpfler S, Schadendorf D, Umansky V.

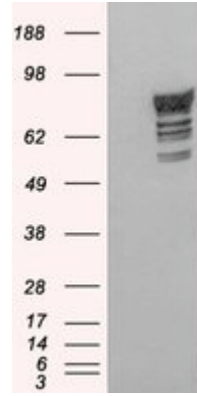
Distinct metabolism of cyclic adenosine monophosphate in regulatory and helper CD4+ T cells.

Mol Immunol. 2010 Jan;47(4):678-84.

PMID: 19939455



EB07046 staining (1 μ g/ml) of COS cell lysates (25 μ g protein): transfected with Human PDE4D1 (1), transfected with Human PDE4D3 (2), untransfected (3). Primary incubation was 1 hour. Detected by chemiluminescence.



HEK293 overexpressing Human PDE4D2 (RC212410) and probed with EB07046 (mock transfection in first lane), tested by Origene.