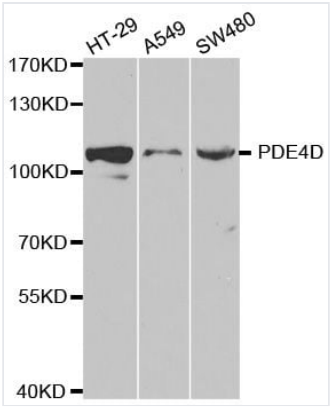
PDE4D Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PDE4D, Polyclonal Antibody
Full Product Name	PDE4D Polyclonal Antibody
Product Gene Name	anti-PDE4D antibody
Product Synonym Names	ACRDYS2; DPDE3; HSPDE4D; PDE43; PDE4DN2; STRK1
Immunogen Sequence	FKLLQEENCD IFQNLTKKQR QSLRKMVIDI VLATDMSKHM NLLADLKTMV ETKKVTSSGV LLLDNYSDRI QVLQNMVHCA DLSNPTKPLQ LYRQWTDRIM EEFFRQGDRE RERGMEISPM CDKHNASVEK SQVGFIDYIV HPLWETWADL VHPDAQDILD TLEDNREWYQ STIPQSPSPA PDDPEEGRQG QTEKFQFELT LEEDGESDTE KDSGSQVEED TSCSDSKTLC TQDSESTEIP LDEQVEEEAV GEEEE
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated: 23-24kDa; 57-91kDa Observed: 110kDa
OMIM	L20970 mRNA
3D Structure	ModBase 3D Structure for Q08499
Immunogen	Recombinant protein of human PDE4D
Immunogen Species	Human
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Cellular Location	Apical cell membrane, Cytoplasm, Membrane, centrosome, cytoskeleton, microtubule organizing center
Positive Samples	HT-29, A-549, SW480
Product Categories/Family for anti-PDE4D antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PDE4D antibody	Western Blot (WB), Immunofluorescence (IF)
Application Notes for anti-PDE4D antibody	WB: 1:500 - 1:2000 IF: 1:20 - 1:100
Related Product Information for anti-PDE4D antibody	This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins.
Other Notes	Small volumes of anti-PDE4D antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PDE4D purchase	MBS9133948 is an antibody targeting PDE4D. Also known as PDE4D Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PDE4D antibody
Western blot analysis of extracts of various cell lines, using PDE4D antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PDE4D. It may not necessarily be applicable to this product.

NCBI GI #	157277988
NCBI GeneID	5144
NCBI Accession #	NP_001098101.1
UniProt Primary Accession #	Q08499
UniProt Secondary Accession #	O43433; Q13549; Q13550; Q13551; Q7Z2L8; Q8IV84; Q8IVA9; Q8IVD2; Q8IVD3; Q96HL4; Q9HCX7
UniProt Related Accession #	Q08499
GenBank Nucleotide #	NM_001104631.1
NCBI Official Full Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4D isoform PDE4D4
NCBI Official Synonym Full Names	phosphodiesterase 4D
NCBI Official Symbol	PDE4D
NCBI Official Synonym Symbols	DPDE3; PDE43; STRK1; ACRDYS2; HSPDE4D; PDE4DN2
UniProt Protein Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4D
UniProt Synonym Protein Names	DPDE3; PDE43
Protein Family	cAMP-specific 3',5'-cyclic phosphodiesterase
UniProt Gene Name	PDE4D
UniProt Synonym Gene Names	DPDE3
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 4D
UniProt Comments for PDE4D	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes.
Research Articles on PDE4D	**1.** Genetic analysis identified the identical, novel heterozygous missense mutation of the PDE4D gene c.569C>T (p.Ser190Phe) in two patients in same family. This case illustrates the significant phenotypic variability of acrodysostosis even within one family with identical mutations.

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