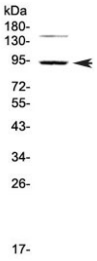
PDE4D Antibody (RQ4277)

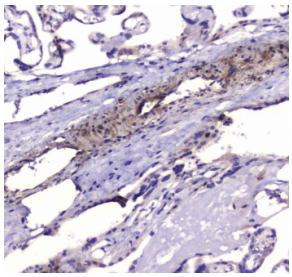
Catalog No.	Formulation	Size
RQ4277	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

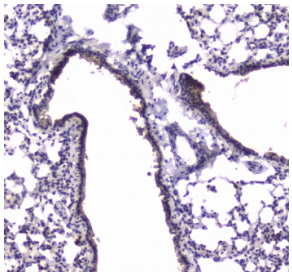
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q08499
Localization	Cell membrane, cytoplasm
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 1-2ug/ml FACS: 1-3ug/10^6 cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This PDE4D antibody is available for research use only.



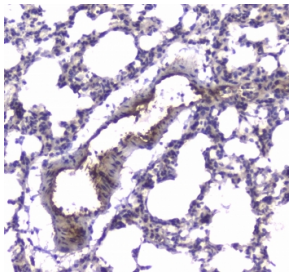
Western blot testing of human HeLa cell lysate with PDE4D antibody at 0.5ug/ml. Predicted molecular weight ~91 kDa.



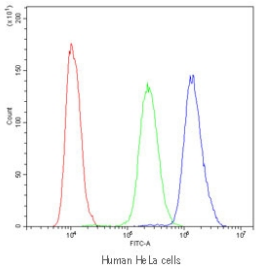
IHC testing of FFPE human placental tissue with PDE4D antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



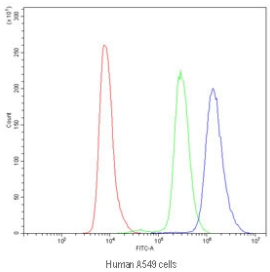
IHC testing of FFPE mouse lung tissue with PDE4D antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE rat lung tissue with PDE4D antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Flow cytometry testing of human HeLa cells with PDE4D antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PDE4D antibody.



Flow cytometry testing of human A549 cells with PDE4D antibody at 1ug/10^6 cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=PDE4D antibody.

Description

cAMP-specific 3',5'-cyclic phosphodiesterase 4D is an enzyme that in humans is encoded by the PDE4D gene. 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.

Application Notes

Optimal dilution of the PDE4D antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids H466-Q709 was used as the immunogen for the PDE4D antibody.

Storage

After reconstitution, the PDE4D antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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