ARG63878
anti-PDE4D antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PDE4D
Tested Reactivity	Hu
Tested Application	ELISA, IHC-P, WB
Specificity	This antiobody is expected to recognize all reported isoforms.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PDE4D
Species	Human
Immunogen	QPEACVIDDRSPDT
Conjugation	Un-conjugated
Alternate Names	EC 3.1.4.53; STRK1; DPDE3; PDE43; ACRDYS2; PDE4DN2; cAMP-specific 3',5'-cyclic phosphodiesterase 4D; HSPDE4D

Application Instructions

Application table

Application	Dilution
ELISA	Assay - dependent
IHC-P	5 µg/ml
WB	0.1 - 0.3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

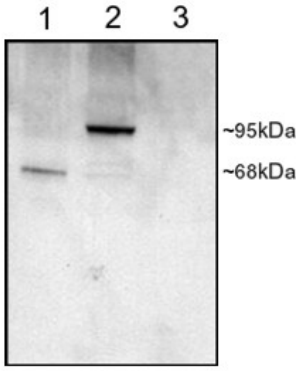
Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

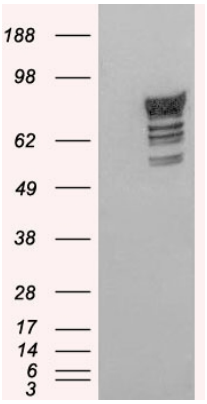
Database links	GeneID: 5144 Human Swiss-port # Q08499 Human
Background	This gene encodes one of four mammalian counterparts to the fruit fly 'dunce' gene. The encoded protein has 3',5'-cyclic-AMP phosphodiesterase activity and degrades cAMP, which acts as a signal transduction molecule in multiple cell types. This gene uses different promoters to generate multiple alternatively spliced transcript variants that encode functional proteins.[provided by RefSeq, Sep 2009]
Research Area	Signaling Transduction antibody
Calculated Mw	91 kDa
PTM	Long isoforms that share a conserved PKA phosphorylation site in the N-terminus are activated by PKA through phosphorylation (By similarity). Isoform 3 and isoform 7 are activated by phosphorylation (in vitro), but not isoform 6. Isoform N3 and isoform 12 are phosphorylated on Ser-49, Ser-51, Ser-55 and Ser-59. Sumoylation of long isoforms by PIAS4 augments their activation by PKA phosphorylation and represses their inhibition by ERK phosphorylation.

Images



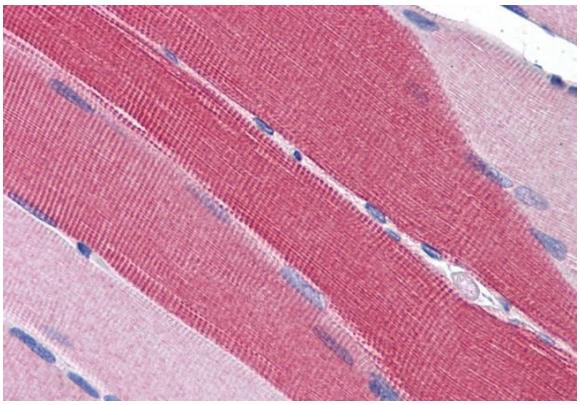
ARG63878 anti-PDE4D antibody WB image

Western Blot: COS cell lysates (25µg protein): transfected with Human PDE4D1 (1), transfected with Human PDE4D3 (2), untransfected (3) stained with ARG63878 anti-PDE4D antibody at 1 µg/ml dilution.



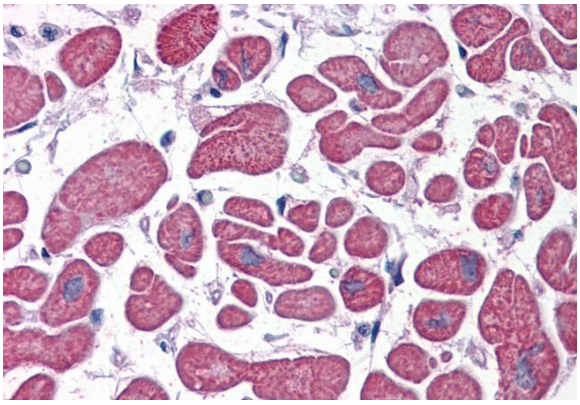
ARG63878 anti-PDE4D antibody WB image

Western Blot: 1). Mock transfection; 2) Human PDE4D2 (RC212410) expressing plasmid transfected HEK293 cell lysate standed with ARG63878 anti-PDE4D antibody



ARG63878 anti-PDE4D antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human skeletal muscle tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63878 anti-PDE4D antibody at 5 µg/ml dilution followed by AP-staining.



ARG63878 anti-PDE4D antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human heart tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63878 anti-PDE4D antibody at 5 µg/ml dilution followed by AP-staining.