

## Rabbit Phospho-PDE4A Polyclonal Antibody | anti-PDE4A antibody

Phospho-PDE4A Antibody

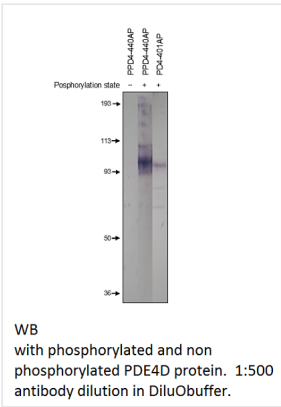
| CATALOG # | HOST   | REACTIVITY                | APPLICATIONS                             |
|-----------|--------|---------------------------|------------------------------------------|
| AAA75661  | Rabbit | Human, Mouse, Rabbit, Rat | Western Blot, Immunoprecipitation, ELISA |

### PRODUCT SYNONYMS

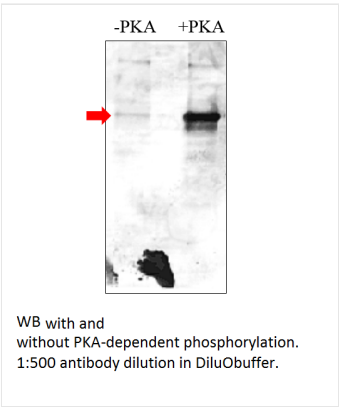
Phospho-PDE4A; Polyclonal Antibody; Phospho-PDE4A Antibody; cAMP specific 3'; 5' cyclic phosphodiesterase 4D; DKFZp686M11213; 5"-cyclic phosphodiesterase 4D; cAMP specific 3' 5' cyclic phosphodiesterase 4D; cAMP specific phosphodiesterase 4D; cAMP specific phosphodiesterase PDE4D6; cAMP-specific 3"; cyclic AMP phosphodiesterase; DPDE 3; FLJ97311; HSPDE4D; PDE 43; Pde4d; PDE4DN2; Phosphodiesterase 4D cAMP specific (dunce (Drosophila) homolog phosphodiesterase E3); Phosphodiesterase 4D cAMP specific; Phosphodiesterase E3 dunce homolog Drosophila; STRK 1; STRK1 antibody; anti-PDE4A antibody

### PRODUCT SPECIFICATIONS

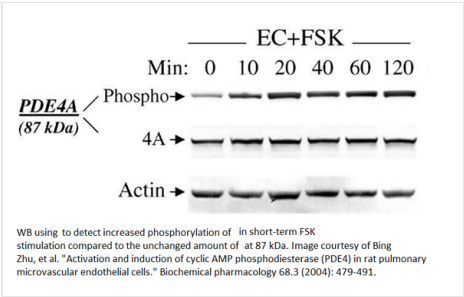
|                                                 |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                                                                               |
| Reactivity                                      | Human, Mouse, Rabbit, Rat                                                                                                                                                                                                                                                                                                            |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                                                                           |
| Specificity                                     | This antibody detects all known long-form variants of PDE4A, including PDE4A4, PDE4A5, PDE4A8, PDE4Ax when phosphorylated at the PKA phosphorylation site. It will not cross-react with PDE4A phosphorylated at the ERK phosphorylation site. It does not cross-react with other members of the PDE family including PDE4B or PDE4D. |
| Form/Format                                     | Affinity Purified                                                                                                                                                                                                                                                                                                                    |
| Concentration                                   | 0.57 ug/ul in antibody stabilization buffer (varies by lot)                                                                                                                                                                                                                                                                          |
| Applicable Applications for anti-PDE4A antibody | WB (Western Blot), IP (Immunoprecipitation), ELISA                                                                                                                                                                                                                                                                                   |
| Immunogen                                       | Synthetic peptide corresponding to PKA phosphorylation site on PDE4A long form enzymes. The peptide was synthesized with phosphorylated serine residue.                                                                                                                                                                              |
| Expression                                      | Expressed in colonic epithelial cells (at protein level). Widespread; most abundant in skeletal muscle. Isoform 6 is detected in brain. Isoform 8 is detected in brain, placenta, lung and kidney. Isoform 7 is detected in heart and skeletal muscle.                                                                               |
| Modification                                    | Phosphorylated                                                                                                                                                                                                                                                                                                                       |
| Molecular Function                              | Hydrolase, 3', 5'-cyclic-AMP phosphodiesterase activity, cAMP binding                                                                                                                                                                                                                                                                |
| Structure                                       | Homodimer for the long isoforms. Isoforms with truncated N-termini are monomeric. Isoform 3 is part of a ternary complex containing PRKAR2A, PRKAR2B and AKAP9. Interacts with PDE4DIP. Identified in a complex composed of RYR1, PDE4D, PKA, FKBP1A and protein phosphatase 1 (PP1).                                                |
| Subcellular Location                            | Apical cell membrane, Cytoplasm, Membrane                                                                                                                                                                                                                                                                                            |
| Preparation and Storage                         | -20• degree C for long term storage                                                                                                                                                                                                                                                                                                  |



WB (Western Blot)



WB (Western Blot)



WB (Western Blot)

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                    |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PDE4A antibody | Affinity Purified Phosphorylated Phosphodiesterase 4A (S140) Antibody<br>Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. |
| Product Categories/Family for anti-PDE4A antibody   | Primary Antibodies; Signal Transduction; Second Messengers; cAMP; Phospho-PDE4A Antibody                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/phospho-pde4a-antibody-western-blot-immunoprecipitation-elisa/75661>