

Datasheet for ABIN1724781  
**anti-PDE1B antibody (AA 370-536)**

6 Images

1 Publication

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## Overview

Quantity:	100 µL
Target:	PDE1B
Binding Specificity:	AA 370-536
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PDE1B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

## Product Details

Immunogen:	Purified recombinant fragment of human PDE1B (AA: 370-536 ) expressed in E. coli.
Clone:	5C4A3
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	PDE1B
Alternative Name:	PDE1B ( <a href="#">PDE1B Products</a> )
Background:	Description: The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE1 subfamily. Members of the PDE1 family are

## Target Details

calmodulin-dependent PDEs that are stimulated by a calcium-calmodulin complex. This PDE has dual-specificity for the second messengers, cAMP and cGMP, with a preference for cGMP as a substrate. cAMP and cGMP function as key regulators of many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. , ,

Aliases: PDE1B1, PDES1B

Molecular Weight: 61.4 kDa

Gene ID: 5153

HGNC: 5153

Pathways: [Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#), [G-protein mediated Events](#), [Interaction of EGFR with phospholipase C-gamma](#)

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, FCM: 1:200 - 1:400

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C/-20 °C

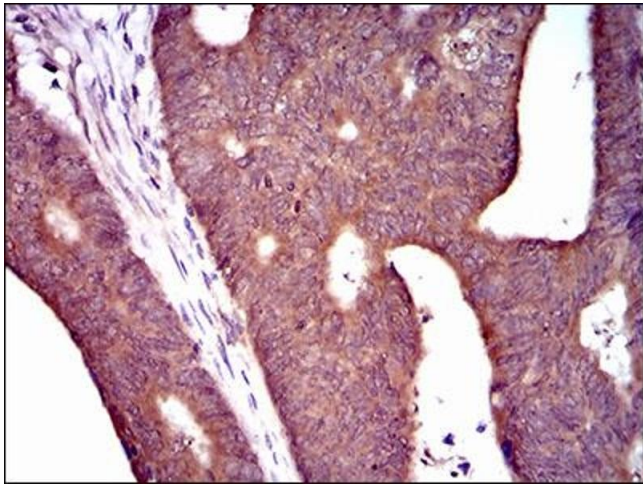
Storage Comment: 4°C, -20°C for long term storage

## Publications

Product cited in: Zuhlke, Johnson, Okoth, Stoffel, Robbins, Tembe, Salinas, Zheng, Xu, Carpten, Lange, Isaacs, Cooney: "Identification of a novel NBN truncating mutation in a family with hereditary prostate cancer." in: **Familial cancer**, Vol. 11, Issue 4, pp. 595-600, (2012) ([PubMed](#)).

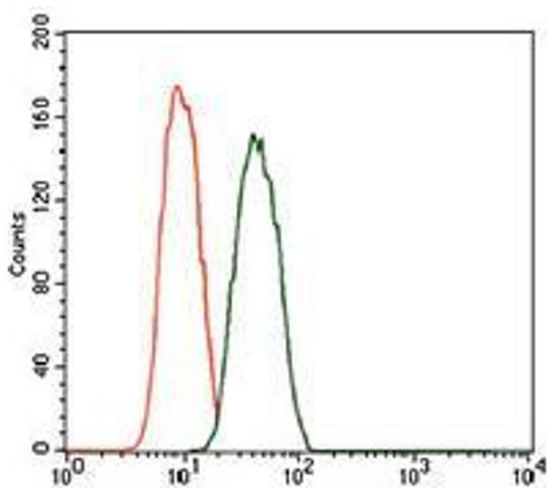
Zheng, Zhang, Jiang, You, Liu, Lu, Zhou: "Functional NBS1 polymorphism is associated with

occurrence and advanced disease status of nasopharyngeal carcinoma." in: **Molecular carcinogenesis**, Vol. 50, Issue 9, pp. 689-96, (2011) ([PubMed](#)).



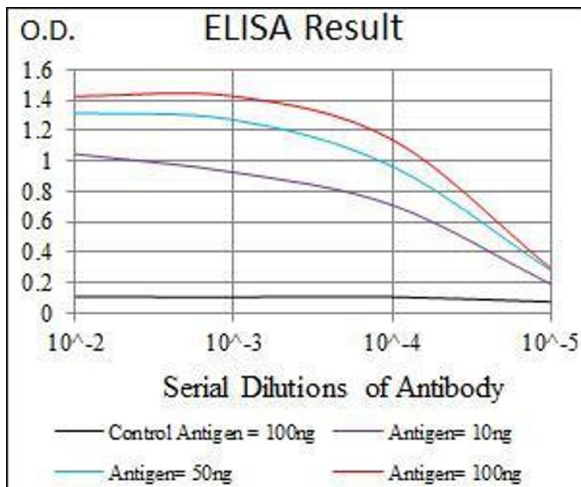
**Immunohistochemistry**

**Image 1.** Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using PDE1B mouse mAb with DAB staining.



**Flow Cytometry**

**Image 2.** Flow cytometric analysis of A549 cells using PDE1B mouse mAb (green) and negative control (red).



**ELISA**

**Image 3.** Black line: Control Antigen (100 ng), Purple line: Antigen(10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng),

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN1724781.