

Datasheet: VMA00976

Description:	MOUSE ANTI PEA15
Specificity:	PEA15
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CD02/4E2
Isotype:	IgG1
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - Liquid

Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-130 of human PEA15

External Database Links

UniProt:

[Q15121](#) [Related reagents](#)

Entrez Gene:

[8682](#) PEA15 [Related reagents](#)

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti PEA15 antibody** recognizes astrocytic phosphoprotein PEA-15, also known as PED. PEA15 is a multifunctional, non-enzymatic protein able to regulate a variety of signaling pathways and implicated in a range of biological processes. It can act as a tumor suppressor, regulating cell cycle progression by promoting the DNA damage-induced G2/M checkpoint and inhibiting RAS-mediated transformation. The function of PEA15 as a tumor suppressor can be attributed to its ability to restrict extracellular signal-related kinase (ERK) in the cytoplasm ([Hindupur et al. 2014](#)). Consistent with its role as a tumor suppressor, PEA15 is epigenetically silenced in many human tumors ([Nagarajan et al. 2014](#)). In ovarian carcinoma, high expression of PEA15 corresponds to increased patient survival. However, PEA15 also appears to have pro-tumorigenic properties. In glioblastoma, for example, PEA15 expression contributes to tumor survival ([Gawecka et al. 2012](#)).

Western Blotting Mouse anti PEA15 detects a band of approximately 14 kDa in A172 cell lysates

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00976>
Antibody (10040)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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