

## Datasheet: VMA00043

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI VISFATIN    |
| <b>Specificity:</b>  | VISFATIN               |
| <b>Other names:</b>  | NAMPT                  |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | PrecisionAb Monoclonal |
| <b>Clone:</b>        | 4D5                    |
| <b>Isotype:</b>      | IgG1                   |
| <b>Quantity:</b>     | 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](http://www.bio-rad-antibodies.com/protocols).

|                  | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| ELISA            | ▪   |    |                |                    |
| 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 purified by affinity chromatography on Protein G from ascites.

#### Buffer Solution

Phosphate buffered saline.

#### Preservative

0.09% Sodium Azide (NaN<sub>3</sub>).

## Stabilisers

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**Approx. Protein Concentrations** 0.5 mg/ml

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**Immunogen** Recombinant human visfatin, amino acids 1-491, purified from *E. coli*

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## External Database Links

### UniProt:

[P43490](#)    [Related reagents](#)

### Entrez Gene:

[10135](#)    NAMPT    [Related reagents](#)

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**Synonyms** PBEF, PBEF1

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## Specificity

**Mouse anti Human visfatin antibody** recognizes human visfatin also known as nicotinamide phosphoribosyltransferase and pre-B-cell colony-enhancing factor 1, a putative cytokine and member of the [NAPRTase](#) family involved in catalyzing the biosynthesis of NAD from nicotinamide.

Visfatin is highly expressed in bone marrow, muscle and liver tissue and increases in expression in response to endotoxin, in amniotic epithelial cells following lipopolysaccharide (LPS) stimulation, and during the activation of T- and B-cells, dendritic cells and macrophages, suggesting a role in inflammatory processes. Visfatin is produced by visceral fat and appears to have effects similar to those of insulin ([Fukuhara \*et al.\* 2005](#)). Plasma levels of visfatin are elevated in patients with type 2 diabetes mellitus ([Chen \*et al.\* 2006](#)). It has also been suggested that macrophages in visceral white adipose tissue may be a prominent source of the adipokines visfatin and resistin as well as chemokines MCP-1, MIP1 $\alpha$  and IL-8, suggesting a pro-inflammatory marker role for visfatin ([Curat \*et al.\* 2006](#)).

Mouse anti Human Visfatin antibody recognizes human visfatin as a single band of ~56 kDa in K562 cell lysates and in other human cell line lysates by western blotting under reducing conditions. The antibody also cross-reacts with visfatin from mouse and rat cell lines.

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**Western Blotting** Anti visfatin antibody detects a band of approximately 56 kDa in K562 cell lysates.

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**References** 1. Bułdak, R.J. *et al.* (2014) Changes in subcellular localization of visfatin in human colorectal HCT-116 carcinoma cell line after cytochalasin B treatment. [Eur J Histochem. 58 \(3\): 2408.](#)

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

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**Guarantee** 12 months from date of despatch.

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**Acknowledgements** PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00043>  
Antibody (10040)

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**Regulatory**

For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

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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](https://www.bio-rad-antibodies.com/datasheets)  
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