

## Datasheet: VMA00207

<b>Description:</b>	MOUSE ANTI PAICS
<b>Specificity:</b>	PAICS
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	OTI5B6
<b>Isotype:</b>	IgG2b
<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
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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography from ascites.
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 1% Bovine Serum Albumin 50% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Full length recombinant human PAICS (NP_006443) produced in HEK293T cells

**External Database  
Links**

**UniProt:**

[P22234](#)    [Related reagents](#)

**Entrez Gene:**

[10606](#)    PAICS    [Related reagents](#)

---

**Synonyms**

ADE2, AIRC, PAIS

---

**Specificity**

**Mouse anti Human PAICS antibody, clone OTI5B6** recognizes PAICS, also known as AIR carboxylase, SAICAR synthetase, multifunctional protein ADE2 and multifunctional protein ADE2H1.

The PAICS gene encodes a bifunctional enzyme containing phosphoribosylaminoimidazole carboxylase activity in its N-terminal region and phosphoribosylaminoimidazole succinocarboxamide synthetase in its C-terminal region. It catalyzes steps 6 and 7 of purine biosynthesis. The gene is closely linked and divergently transcribed with a locus that encodes an enzyme in the same pathway, and transcription of the two genes is coordinately regulated. The human genome contains several pseudogenes of PAICS. Multiple transcript variants encoding different isoforms have been found for PAICS (provided by RefSeq, Jul 2008).

Mouse anti Human PAICS antibody, clone OTI5B6 detects a band of 47 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

---

**Western Blotting**

Anti PAICS detects a band of approximately 47 kDa in Raji 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 #10048 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00207>  
Antibody (10048)

---

**Regulatory**

For research purposes only.

---

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

**North & South  
America**    Tel: +1 800 265 7376  
                  Fax: +1 919 878 3751

**Worldwide**    Tel: +44 (0)1865 852 700  
                  Fax: +44 (0)1865 852 739

**Europe**    Tel: +49 (0) 89 8090 95 21  
                  Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

'M408658:221013'

**Printed on 19 Jan 2024**

---