

Datasheet: VMA00234

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| Description: | MOUSE ANTI OCT4 |
| Specificity: | OCT4 |
| Format: | Purified |
| Product Type: | PrecisionAb Monoclonal |
| Clone: | OTI2B6 |
| Isotype: | IgG2b |
| 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 |
|------------------|-----|----|----------------|--------------------|
| 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.

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| Target Species | Human |
| Product Form | Purified IgG - liquid |
| Preparation | Mouse monoclonal antibody purified by affinity chromatography from ascites. |
| Buffer Solution | Phosphate buffered saline. |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 50% Glycerol. |
| Immunogen | Full length recombinant human OCT4 (NP_002692) produced in HEK293T cells |
| External Database Links | UniProt: Q01860 Related reagents |

Entrez Gene:

[5460](#) POU5F1 [Related reagents](#)

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| Synonyms | OCT3, OCT4, OTF3 |
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| Specificity | <p>Mouse anti Human OCT4 antibody, clone OT12B6 recognizes the POU domain, class 5, transcription factor 1, also known as POU domain transcription factor OCT4, POU domain, class 5, transcription factor 1, POU-type homeodomain-containing DNA-binding protein, octamer-binding protein 3, octamer-binding protein 4 and octamer-binding transcription factor 3.</p> <p>The OCT4 gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development, especially during early embryogenesis, and it is necessary for embryonic stem cell pluripotency. A translocation of POU5F1 with the Ewing's sarcoma gene, t(6;22)(p21;q12), has been linked to tumor formation. Alternative splicing, as well as usage of alternative translation initiation codons, results in multiple isoforms, one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1, 3, 8, 10, and 12 (provided by RefSeq, Mar 2010).</p> <p>Mouse anti Human OCT4 antibody, clone OT12B6 detects a band of 45 kDa. The OCT4 antibody has been extensively validated for western blotting using whole cell lysates.</p> |
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| Western Blotting | Anti OCT4 detects a band of approximately 45 kDa in NTERA-2 cell lysates. |
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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 #10048 available at: Antibody (10048): https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf |
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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 IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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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
'M397751:220620'

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