

Datasheet: VMA00234

BATCH NUMBER 061015

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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	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](#)

Synonyms

OCT3, OCT4, OTF3

Specificity

Mouse anti Human OCT4 antibody, clone OTI2B6 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.

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).

Mouse anti Human OCT4 antibody, clone OTI2B6 detects a band of 45 kDa. The OCT4 antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti OCT4 detects a band of approximately 45 kDa in NTERA-2 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/VMA00234>
Antibody (10048)

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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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