

Datasheet: VMA00234

Description:	MOUSE ANTI OCT4
Specificity:	OCT4
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	OT12B6
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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant 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	<p>UniProt: Q01860 Related reagents</p> <p>Entrez Gene: 5460 POU5F1 Related reagents</p>
Synonyms	OCT3, OCT4, OTF3

Specificity **Mouse anti Human OCT4 antibody** 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 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

Instructions For Use Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

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

Shelf Life As supplied, 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: Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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 \(MCA691\)](#)

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