

## Monoclonal Mouse Antibody to Human OCT 4

<b>Catalog No.:</b>	PDM 155
<b>Intended Use:</b>	This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Clinical interpretation of staining results should be accompanied by histological studies with proper controls. Patients' clinical histories and other relevant diagnostic tests should be utilized by a qualified person(s) when evaluating and interpreting results.
<b>Immunogen:</b>	BALB/C mice injected with synthetic peptide of human OCT-4 origin.
<b>Clone:</b>	NRG1.1
<b>Isotype:</b>	IgG2b
<b>Format:</b>	This antibody has been pretitered and quality controlled to work for IHC on formalin-fixed paraffin-embedded tissue sections. No further titration is required.
<b>Staining Protocol:</b>	We suggest an incubation period of 30 minutes at room temperature. Optimal incubation conditions should be determined by the user based upon the fixation conditions and staining system employed. <u>Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10mM citrate buffer, pH 6.0 prior to immunostaining.</u>
<b>Specificity:</b>	OCT-4 (also known as POU5F1), a transcription factor that has been recognized as fundamental in the maintenance of pluripotency in embryonic stem cells and primordial germ cells, has been proposed as a useful marker for Germ Cell Tumors (GCTs) that exhibit features of pluripotentiality, specifically seminoma / dysgerminoma / germinoma and embryonal carcinoma. OCT-4 immunostaining has been shown to be a sensitive and specific marker for seminomatous / (dys)germinomatous tumours and in embryonal carcinoma variants of non-seminomatous GCTs, whether in primary gonadal or extragonadal sites or in metastatic lesions.
<b>Positive Control:</b>	Seminoma
<b>Cellular Localization:</b>	Nuclear
<b>Storage:</b>	Store at 2-8°C. Do not use beyond the expiration date stated on the label.
<b>References:</b>	i) Cheng et al. J Pathol 211: 1, 2007. ii) Jung et al. Appl Immunohistochem Mol Morph 14: 273, 2006. iii) Sung et al. Human Pathol. Jun;37(6):662-7, 2006. iv) Jones et al. Am J Surg Pathol. Nov,30(11):1427-31, 2006. v) Hattab et al. Am J Surg Pathol. 29(3):368-371, 2005. vi) Lau et al. Adv in Anat Path. 13(2):76-79, 2006.

### IVD: For In Vitro Diagnostic Use

DBS will not be held responsible for patent infringement or other violation that may occur with the use of our product

**DBS**

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