

Monoclonal Antibody to OCT3/4 - Supernatant

Alternate names:	OCT3, OCT4, OTF3, Oct-3, Oct-4, Octamer-binding transcription factor 3, POU domain, POU5F1, class 5, transcription factor 1
Catalog No.:	AM03171SU-N
Quantity:	6 ml
Background:	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.
Uniprot ID:	Q01860
NCBI:	NP_002692.2
GeneID:	5460
Host / Isotype:	Mouse / IgG2b
Clone:	NRG1.1
Immunogen:	Synthetic peptide of human OCT-4 origin
Format:	State: Liquid pretitered IgG
Applications:	IHC on formalin-fixed paraffin-embedded and frozen tissue sections. No further titration is required. We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the end user. Formalin fixed paraffin embedded tissue sections require high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining. Positive Control: Seminoma. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects OCT4. Species: Human. Other species not tested.
Add. Information:	Cellular Localization: Nuclear.
Storage:	Store at 2 - 8 °C. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



- General Readings:**
1. Cheng et al. J Pathol 211: 1, 2007.
 2. Jung et al. Appl Immunohistochem Mol Morph 14: 273, 2006.
 3. Sung et al. Human Pathol. Jun;37(6):662-7, 2006.
 4. Jones et al. Am J Surg Pathol. Nov,30(11):1427-31, 2006.
 5. Hattab et al. Am J Surg Pahtol. 29(3):368-371, 2005.
 6. Lau et al. Adv in Anat Path. 13(2):76-79, 2006.

Pictures: Formalin fixed paraffin embedded human seminomatous tumor stained with OCT-4 antibody (AM03171SU-N)

