

Human/Mouse Oct-3/4 Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 240408

Catalog Number: IC1759G

100 µg

DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects human Oct-3/4 in Western blots and detects mouse Oct-3/4 in flow cytometry.		
Source	Monoclonal Rat IgG _{2B} Clone # 240408		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human Oct-3/4 Met1-Asn265 (Met262Leu) Accession # Q01860		
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.		

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Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

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	Recommended Concentration	Sample			
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ cells	BG01V human embryonic stem cells and D3 mouse embryonic stem cell line fixed with			
		paraformaldehyde and permeabilized with saponin			

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze.

12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Oct-3/4, also termed Oct-3 or Oct-4, is a POU transcription factor that is expressed in totipotent embryonic stem and germ cells.(2, 3) Oct-3/4 is required to sustain stem cell self-renewal and pluripotency.(4) It is considered a master regulator of pluripotency that controls lineage commitment and is the most widely recognized marker of totipotent embryonic stem cells.

References:

- 1. Takeda, J. et al. (1992) Nucleic Acids Res. 20:4613.
- 2. Scholer, H.R. et al. (1989) EMBO J. 8:2543.
- 3. Rosner, M.H. et al. (1990) Nature 345:686
- 4. Niwa, H. et al. (2000) Nat. Genet. 24:372.

PRODUCT SPECIFIC NOTICES

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