

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse PRDM14 in ELISA.
Source	Monoclonal Rat IgG _{2B} Clone # 856235
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse PRDM14 Met1-Glu191 Accession # E9Q3T6
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

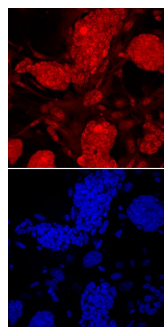
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



PRDM14 in D3 Mouse Embryonic Stem Cells. PRDM14 was detected in immersion fixed D3 mouse embryonic stem cells using Rat Anti-Mouse PRDM14 Monoclonal Antibody (Catalog # MAB8097) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Stem Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PRDM14 is an approximately 65 kDa transcriptional inhibitor that contains one histone methylating PR/SET domain (aa 243 – 360) and six zinc finger repeats (aa 390 - 558). PRDM14 is preferentially expressed in germ cells and undifferentiated embryonic stem cells in which it plays a central role in lineage specification, maintenance of pluripotency, and repression of somatic gene transcription. PRDM14 is upregulated in breast cancer and lymphoblastic leukemia. Within aa 1-191, mouse PRDM14 shares 46% aa sequence identity with human PRDM14.