

DESCRIPTION

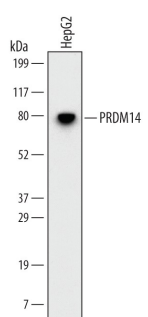
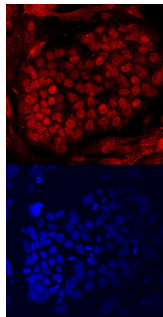
Species Reactivity	Human
Specificity	Detects human PRDM14 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse PRDM14, recombinant human (rh) ZNF24, rhZNF143, rhZNF206 or rhZNF281 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 647002
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PRDM14 Ala2-Asp201 Accession # Q9GZV8
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
Western Blot	2 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human PRDM14 by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line. PVDF Membrane was probed with 2 µg/mL of Human PRDM14 Monoclonal Antibody (Catalog # MAB6175) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for PRDM14 at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>PRDM14 in BG01V Human Cell Line. PRDM14 was detected in fixed BG01V human embryonic stem cells grown on irradiated MEF cells using Human PRDM14 Monoclonal Antibody (Catalog # MAB6175) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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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 266-367) and six zinc finger repeats (aa 400-568). 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 up regulated in breast cancer and lymphoblastic leukemia. Within aa 1-201, human and mouse PRDM14 share 46% aa sequence identity.