Human PRDM14 Antibody

Monoclonal Mouse IgG_1 Clone # 647002

Catalog Number: MAB6175

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	*E. coli*-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 as a 0.2 µm filtered solution in PBS.

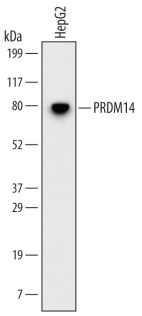
APPLICATIONS

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

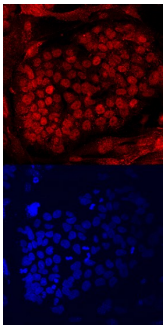
DATA

Western Blot



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.

Immunocytochemistry



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.

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.** ● 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.

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