

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
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

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

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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