Datasheet for ABIN129646

anti-RIF1 antibody (AA 2375-2419)

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Overview

Quantity:	100 µg
Target:	RIF1
Binding Specificity:	AA 2375-2419
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Rif1 Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to C-Terminal region near amino acids 2375-2419 of Mouse Rif1. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against mouse Rif1 protein.
Characteristics:	Synonyms: rabbit anti-Rif1 antibody, Rif-1, Rif 1, Telomere-associated protein RIF1, Rap1 interacting factor 1 antibody, Rap1 interacting factor 1 homolog antibody, mRif1, Rap-1
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

Target Details

Target:	RIF1
Alternative Name:	Rif1 (RIF1 Products)
Background:	Background: Rif1 (also known as telomere-associated protein RIF1 and Rap1-interacting factor 1) is a mouse ortholog of the yeast Rif1 family of telomere-associated proteins identified on the basis of its high expression in primordial germ cells and embryo-derived pluripotent stem cell lines. Mouse Rif1 is a protein involved in negative regulation of telomere length. It is also localized to ATM dependent DNA damage foci and may act at the chromatin level to allow access to some factors.
Gene ID:	51869, 68565756
UniProt:	Q6PR54
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	Application Note: This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 265 kDa in size corresponding to Rif1 by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:500 - 1:3,000 ELISA Dilution: 1:5,000 - 1:40,000 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.6 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	Tanaka, Muto, Shima, Katoh, Sax, Tajima, Brydun, Ikura, Yoshizawa, Masai, Hoshikawa, Noda, Nio, Ochiai, Igarashi: "Epigenetic Regulation of the Blimp-1 Gene (Prdm1) in B Cells Involves Bach2 and Histone Deacetylase 3." in: **The Journal of biological chemistry**, Vol. 291, Issue 12, pp. 6316-30, (2016) (PubMed).

Images

Western Blotting

Image 1. Western blot using Affinity Purified anti-Rif1 antibody shows detection of a band ~265 kDa corresponding to mouse Rif1 (arrowhead). Specific reactivity with this band is blocked when the antibody is pre-incubated with the immunizing peptide (data not shown). Approximately 25 ug of MEF whole cell lysate was separated by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1.0?ug/ml for 2 h at room temperature followed by washes and reaction with a 1:10,000 dilution of800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature. IRDye800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.