Datasheet for ABIN5596923

anti-FAM89B antibody

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Overview

Quantity:	100 µL
Target:	FAM89B
Reactivity:	Mouse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FAM89B antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Immunogen:	Immunogen: MMTV was prepared from whole rabbit serum produced by repeated immunizations with a full length sequence for mouse mammary tumor virus capsid protein tagged with His. Immunogen Type: Native Protein
Cross-Reactivity (Details):	A BLAST analysis was used to suggest cross-reactivity with MMTV from mouse based on a 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Purification:	Mouse mammary tumor virus capsid antibody was prepared from monospecific, delipidated and defibrinated antiserum, with addition of sodium azide to 0.01% and cross adsorbed with His.

Target Details

Target:	FAM89B

Target Details

Alternative Name:	MMTV (FAM89B Products)
Background:	Synonyms: Gag-Pro-Pol, Mouse mammary tumor virus (strain C3H), MMTV capsid, Reverse transcriptase/ribonuclease H, Capsid protein p27 Background: This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Enzyme, and Viral research. Mouse mammary tumor virus capsid is a polyprotein that is cleaved by aspartyl protease during or after the release of the virion from the plasma membrane. After entering the cell, reverse transcriptase converts the viral dimeric RNA genome into dsDNA in the cytoplasm. Displaying DNA polymerase activity and RNase H activity, this enzyme copies either DNA or RNA templates and cleaves the RNA strand of the RNA-DNA heteroduplex in a partially processive 3' to 5' endonucleasic mode. tRNS binds to the primer at the 5' end of the viral RNA. Reverse transcriptase uses the 3' end of the tRNA primer to perform a short round of RNA-dependent minus-strand DNA synthesis proceeding through the U5 region and ending after the repeated region. This RNA-DNA heteroduplex is digested by the RNase H and hybridizes with the identical R region at the 3' end of the viral RNA. RNase H then digests the RNA template except for a polypurine tract situated at the 5' end of the genome. RNase H probably can proceed both in a polymerase-dependent and a polymerase-independent mode. Reverse transcriptase also performs DNA-directed plus-strand DNA synthesis using the polypurine tract that has not been removed by RNase H as primers. Polypurine tract and tRNA primers are then removed by RNase H and the 3' and 5' ssDNA primer binding site regions hybridize to form a circular dsDNA intermediate. Strand displacement synthesis by reverse transcriptase to the primer binding site and polypurine tract ends produces a blunt ended, linear dsDNA copy of the viral genome that includes long terminal repeats at both ends. Anti-MMTV Antibody is ideal for researchers interested in Cancer, Enzyme, and Viral research. Gene Name: gag-pro-pol
UniProt:	P11283

Application Details

Application Notes:	Application Note: Anti-MMTV Antibody has been tested for use in western blotting. Specific conditions for reactivity should be optimized by the end user. Expect band approximately 26.7 kDa in size corresponding to MMTV capsid protein by western blotting in the appropriate cell lysate or extract. Western Blot Dilution: 1:1000-1:2000 ELISA Dilution: 1:10,000-1:20,000

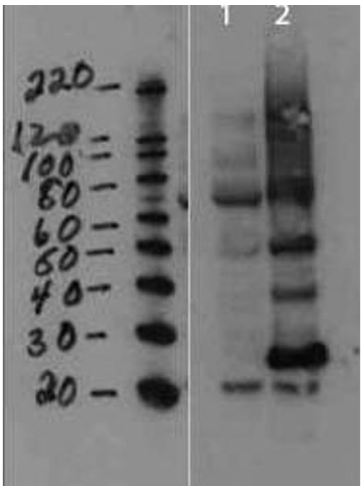
Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	77 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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

Images



Western Blotting

Image 1. Western Blot of Rabbit anti-MMTV antibody. Lane 1: cell lysate negative control. Lane 2: cell lysate spiked with purified virus. Load: 10 µg per lane. Primary antibody: Mouse Mammary Tumor Virus Capsid antibody at 1:1000 for overnight at 4°C. Secondary antibody: rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~26.7kDa, ~28kDa and ~50kDa for MMTV. Other bands: higher bands are not unexpected since proteins are made from a larger precursor.

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