10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-MMTV (RABBIT) Antibody
MMTV Antibody
Catalog # ASR3773

Specification

Anti-MMTV (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Reactivity	**Virus**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
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 41.2 kDa in size corresponding to MMTV surface protein by western blotting in the appropriate cell lysate or extract.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**MMTV was prepared from whole rabbit serum produced by repeated immunizations with a full length sequence for mouse mammary tumor virus surface protein tagged with His.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-MMTV (RABBIT) Antibody - Additional Information

Purity
Mouse mammary tumor virus surface protein antibody was prepared from monospecific, delipidated and defibrinated antiserum, with addition of sodium azide to 0.01% and cross adsorbed with 6X HIS. 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.

Storage Condition
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.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-MMTV (RABBIT) Antibody - Protein Information

Name env

Function
The surface protein (SU) attaches the virus to the host cell by binding to its receptor. This interaction triggers the refolding of the transmembrane protein (TM) and is thought to activate its fusogenic potential by unmasking its fusion peptide. Fusion occurs at the host cell plasma membrane (By similarity).

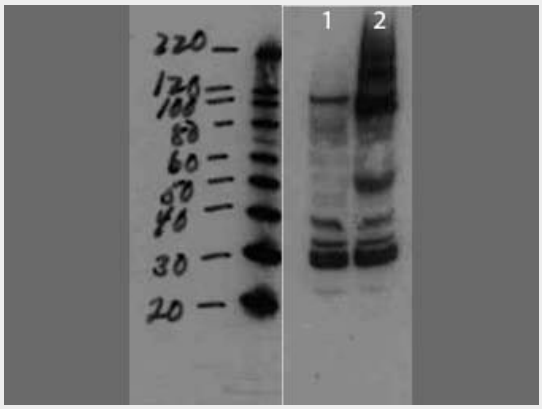
Cellular Location
[Transmembrane protein]: Virion membrane; Single-pass type I membrane protein. Host cell membrane; Single-pass type I membrane protein

Anti-MMTV (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-MMTV (RABBIT) Antibody - Images



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 Surface Protein antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~41.2kDa for MMTV. Other bands: higher bands not unexpected since proteins are made from a larger precursor.

Anti-MMTV (RABBIT) Antibody - 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 surface protein binds the virus to the receptor of the host cells triggering transmembrane protein refolding. This activates the fusion peptide and the structure coils and repeats positioning the fusion peptide near the C-terminus region. Inturn increasing close

proximity and then fusion of viral and cell membranes. Anti-MMTV is ideal for researchers interested in Cancer, Viral, and Enzyme research.