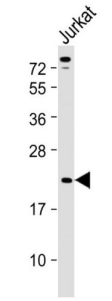
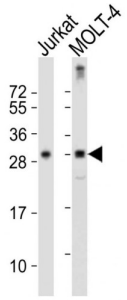
T-Cell Receptor Beta Chain V Region CTL-L17 / TCRB (TRBV7-9) Antibody

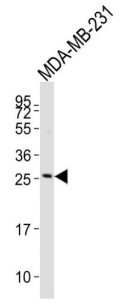
Catalogue No.:abx026649



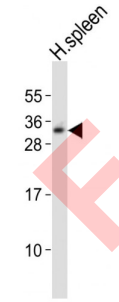
WB analysis of Jurkat whole cell lysates, using TCRB antibody (1/2000 dilution). Predicted band size: 15 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



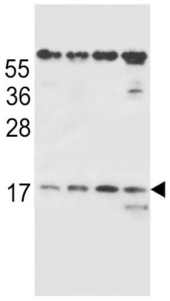
WB analysis of Jurkat and MOLT-4 whole cell lysates, using TCRB antibody (1/1000 dilution). Predicted band size: 15 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



WB analysis of MDA-MB-231 whole cell lysates, using TCRB antibody (1/500 dilution). Predicted band size: 15 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



WB analysis of huaman spleen lysates, using TCRB antibody (1/1000 dilution). Predicted band size: 15 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



WB analysis of (1) MDA-MB231, (2) HEK293, (3) Ramos, and (4) NCI-H460 cell line lysates.

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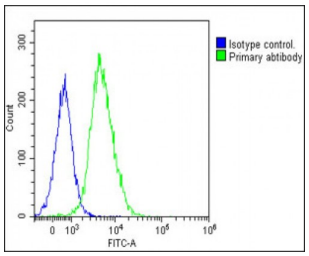

Flow cytometry analysis of Jurkat cells stained with TCRB antibody (green). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% BSA to block non-specific protein-protein interactions followed by the antibody (1/25 dilution) for 60 min at 37 °C. The secondary antibody used was DL488-conjugated Goat-Anti-Rabbit IgG (1/200 dilution) for 40 min at room temperature. The isotype control antibody (blue) was rabbit IgG1 (1 µg/10^6 cells) used under the same conditions. Acquisition of > 10,000 events was performed.

The receptors on T cells consist of immunoglobulin like integral membrane glycoproteins containing 2 polypeptide subunits, alpha and beta, of similar molecular weight, 40 to 55 kD in the human. Like the immunoglobulins of the B cells, each T cell receptor subunit has, external to the cell membrane, an N terminal variable domain and a C terminal constant domain. T cell receptors recognise foreign antigens which have been processed as small peptides and bound to major histocompatibility complex molecules at the surface of antigen presenting cells. Each T cell receptor is a dimer consisting of one alpha and one beta chain or one delta and one gamma chain. In a single cell, the T cell receptor loci are rearranged and expressed in the order delta, gamma, beta, and alpha. If both delta and gamma rearrangements produce functional chains, the cell expresses delta and gamma. If not, the cell proceeds to rearrange the beta and alpha loci.

Target:	T-Cell Receptor Beta Chain V Region CTL-L17 / TCRB (TRBV7-9)
Clonality:	Polyclonal
Reactivity:	Human
Tested Applications:	ELISA, WB, FCM
Host:	Rabbit
Recommended dilutions:	WB: 1/1000, FCM: 1/25. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	KLH-conjugated synthetic peptide between 67-94 amino acids from the Central region of human TCRB.
Isotype:	IgG
Form:	Liquid
Purification:	Purified through a protein A column, followed by peptide affinity purification.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.
UniProt Primary AC:	P04435 (UniProt, ExPASy)

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Gene Symbol:	TRBV7-9
Molecular Weight:	Calculated MW: 13.1 kDa
Buffer:	PBS containing 0.09% sodium azide.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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