

DESCRIPTION

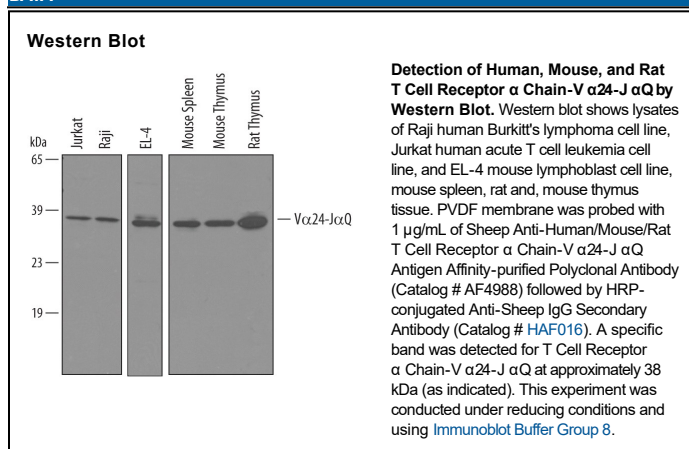
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat T Cell Receptor α Chain-V α 24-J α Q in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human T Cell Receptor α Chain-V α 24-J α Q Lys22-Pro135 Accession # ABC72391
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

V α 24-J α Q (T cell receptor alpha chain) is a 31 kDa (predicted) member of the Ig superfamily. It constitutes an invariant α -chain that is paired with the V β 11 chain on human NKT^{INV} cells, a subpopulation of NKR-P1A T cells. This TCR creates a binding site for CD1d-associated ligands that are presumed to involve glyco-/phospholipids. The human V α 24V β 11 TCR is analogous to the V α 14V β 8 complex in mice. Human V α 24-J α Q is 276 amino acids in length. It contains a 21 aa signal sequence, multiple N-linked glycosylation sites, a V-type Ig-like domain (aa 36-133) and a TCR-related sequence of unknown function (aa 142-255). Considerable variability is noted over aa 22-114. The closest mouse ortholog to human V α 24-J α Q shows 65% aa identity over aa 22-135.