

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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