

Human Vy9Vδ2 TCR Protein



Cat. No. TCR-HM1GV

| Description      |                                                                                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Source           | Recombinant Human Vy9Vδ2 TCR Protein is expressed from HEK293, with a His tag at the C-terminus of the TRGV9 chain.<br>It contains Ala21-Val121(TRGV9) & Ala20-Thr115(TRDV2). |
| Accession        | Q99603(TRGV9)& A0JD36(TRDV2)                                                                                                                                                  |
| Molecular Weight | The protein has a predicted MW of 21.32 kDa (TRGV9) and 20.71 kDa (TRDV2). Due to glycosylation, the protein migrates to 25-30 kDa based on Bis-Tris PAGE result.             |
| Endotoxin        | Less than 0.1 EU per µg by the LAL method.                                                                                                                                    |
| Purity           | > 95% as determined by Bis-Tris PAGE<br>> 90% as determined by HPLC                                                                                                           |

| Formulation and Storage |                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Formulation             | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.                                                                                       |
| Reconstitution          | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.                                                                                           |
| Storage                 | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

| Background                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
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| Human Vy9Vδ2 T cells, a major innate-like peripheral T cell subset, can behave as cellular adjuvants to rally a wide range of immune reactions against cancer cells mediated by innate and adaptive immune effector cells, including B cells, neutrophils, and NK cells. Vy9Vδ2 T cells can provide B-cell help to promote antibody production and immunoglobulin class switching. Vy9Vδ2 T cells are very attractive candidates for cell-based immunotherapy in cancers. |  |

Assay Data

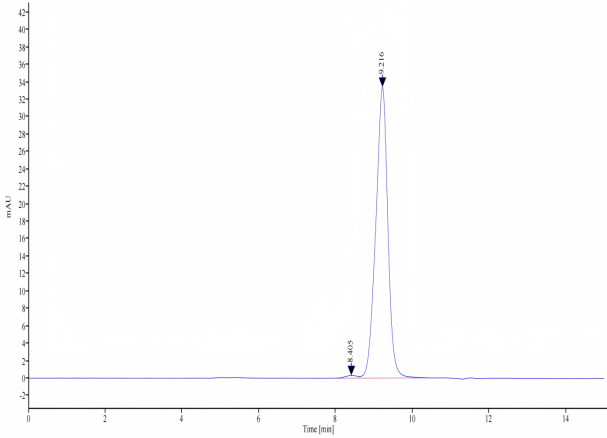
Bis-Tris PAGE



Human Vy9Vδ2 TCR on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



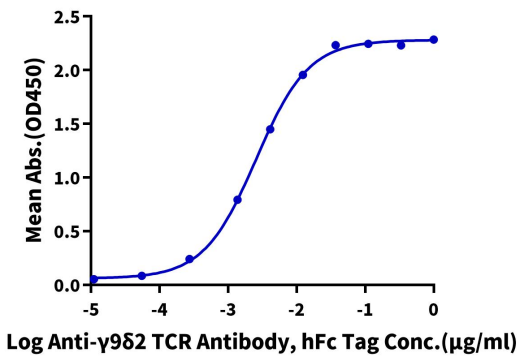
The purity of Human Vγ9Vδ2 TCR is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human Vγ9Vδ2 TCR, His Tag ELISA

0.2μg Human Vγ9Vδ2 TCR, His Tag Per Well



Immobilized Human Vγ9Vδ2 TCR, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Anti-γ9δ2 TCR Antibody, hFc Tag with the EC50 of 2.6ng/ml determined by ELISA.