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Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Gamma Delta TCR [G5-4] Standard Size Ab03990-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This is a reformatted mouse IgG2a Fc Silent™ antibody, based on the original mouse IgG2a format, created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG2a, [Fc Silent™](#), Kappa

Clone Number: G5-4

Alternative Name(s) of Target: TCR $\gamma\delta$; $\gamma\delta$ TCR; TCR GD; GD TCR; TCRg/d; T-cell surface glycoprotein CD3 delta chain; CD3D; T3D; T-cell receptor T3 delta chain; T-cell surface glycoprotein CD3 gamma chain; CD3G; T-cell receptor T3 gamma chain; CD3g; T3G

UniProt Accession Number of Target Protein: P04234; P09693

Published Application(s): functional assay, FC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing BALB/c mice with recombinant γ 962 (OT3)-Fc fusion protein as an immunogen.

Specificity: This antibody is specific for the human TCR delta and gamma chains. The T-cell receptor (TCR) is a molecule found on the surface of T cells, or T lymphocytes, that is responsible for recognizing fragments of antigen as peptides bound to major histocompatibility complex (MHC) molecules. On activation through antigen presenting cells (APCs), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. TCR part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response.

Application Notes: The binding of this antibody to $\gamma\delta$ T cells was determined using flow cytometry. This antibody can compete with commercially available anti- $\gamma\delta$ TCR antibody IMMU510 for binding to gamma-delta T cells. It is proposed that, since there is some competition between the two antibodies, G5-4 binds a similar or identical epitope to IMMU510. In an in vitro proliferation assay, this antibody was reported to positively stimulate the proliferation of $\gamma\delta$ T cells. The scFv version of this antibody was also reported to stimulate the secretion of cytokines like IFN- γ and TGF- α . G5-4ScFv-amplified $\gamma\delta$ T cells can effectively kill daudi cells, and the killing efficiency is greater than 85% when the effect-to-target ratio is 5:1 (CN103130894).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 100 μ g Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.