

TRDC Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP19091c**Specification**

TRDC Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [B7Z8K6](#)**TRDC Antibody (Center) Blocking Peptide - Additional Information****Other Names**

T-cell receptor delta chain C region, TRDC

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TRDC Antibody (Center) Blocking Peptide - Protein Information**Name** TRDC {ECO:0000303|Ref.4}**Function**

Constant region of T cell receptor (TR) delta chain that participates in the antigen recognition (PubMed:24600447). Gamma-delta TRs recognize a variety of self and foreign non-peptide antigens frequently expressed at the epithelial boundaries between the host and external environment, including endogenous lipids presented by MH-like protein CD1D and phosphoantigens presented by butyrophilin-like molecule BTN3A1. Upon antigen recognition induces rapid, innate-like immune responses involved in pathogen clearance and tissue repair (PubMed:28920588, PubMed:23348415). Binding of gamma-delta TR complex to antigen triggers phosphorylation of immunoreceptor tyrosine-based activation motifs (ITAMs) in the CD3 chains by the LCK and FYN kinases, allowing the recruitment, phosphorylation, and activation of ZAP70 that facilitates phosphorylation of the scaffolding proteins LCP2 and LAT. This lead to the formation of a supramolecular signalosome that recruits the phospholipase PLCG1, resulting in calcium mobilization and ERK activation, ultimately leading to T cell expansion and differentiation into effector cells (PubMed:25674089). Gamma-delta TRs are produced through somatic rearrangement of a limited repertoire of variable (V), diversity (D), and joining (J) genes. The potential diversity of gamma-delta TRs is conferred by the unique ability to rearrange (D) genes in tandem and to utilize all three reading frames. The combinatorial diversity is considerably increased by the sequence exonuclease trimming and

random nucleotide (N) region additions which occur during the V-(D)-J rearrangements
(PubMed:24387714).

Cellular Location

Cell membrane.

TRDC Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TRDC Antibody (Center) Blocking Peptide - Images**TRDC Antibody (Center) Blocking Peptide - Background**

The function of this protein remains unknown.