

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



CD3-ε (D71) Peptide

Cat No.: BS3476P

Background

When T cells encounter antigens via the T cell receptor (TCR), information about the quantity and quality of antigens is relayed to the intracellular signal transduction machinery. This activation process depends mainly on CD3 (Cluster of Differentiation 3), a multiunit protein complex that directly associates with the TCR. CD3 is composed of four polypeptides: ζ, γ, ε and δ. Each of these polypeptides contains at least one immunoreceptor tyrosine-based activation motif (ITAM). Engagement of TCR complex with foreign antigens induces tyrosine phosphorylation in the ITAM motifs and phosphorylated ITAMs function as docking sites for signaling molecules such as ZAP-70 and p85 subunit of PI-3 kinase. TCR ligation also induces a conformational change in CD3ε, such that a proline-region is exposed and then associates with the adapter protein Nck.

Swiss-Prot

P07766

Applications

Blocking

Specificity

This peptide can be used with studies using BS3476 CD3-ε (D71) pAb.

Purification & Purity

Synthetic peptide CD3-ε (D71). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.