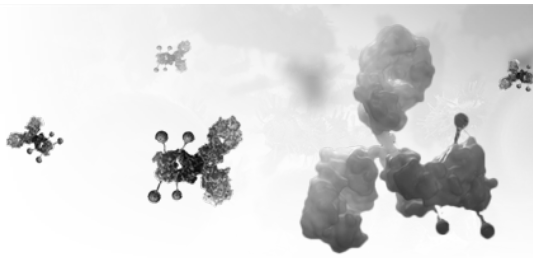

Human TCF3 (phospho T355) peptide (DAG-P2012)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes a member of the E protein (class I) family of helix-loop-helix transcription factors. E proteins activate transcription by binding to regulatory E-box sequences on target genes as heterodimers or homodimers, and are inhibited by heterodimerization with inhibitor of DNA-binding (class IV) helix-loop-helix proteins. E proteins play a critical role in lymphopoiesis, and the encoded protein is required for B and T lymphocyte development. Deletion of this gene or diminished activity of the encoded protein may play a role in lymphoid malignancies. This gene is also involved in several chromosomal translocations that are associated with lymphoid malignancies including pre-B-cell acute lymphoblastic leukemia (t(1;19), with PBX1), childhood leukemia (t(19;19), with TFPT) and acute leukemia (t(12;19), with ZNF384). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 9. [provided by RefSeq, Sep 2011]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Contains 1 basic helix-loop-helix (bHLH) domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	TCF3 transcription factor 3 [Homo sapiens (human)]

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Official Symbol	TCF3
Synonyms	TCF3; transcription factor 3; E2A; E47; ITF1; VDIR; TCF-3; bHLHb21; transcription factor E2-alpha; kappa-E2-binding factor; VDR interacting repressor; transcription factor ITF-1; helix-loop-helix protein HE47; transcription factor 3 variant 3; immunoglobulin transcription factor 1; vitamin D receptor-interacting repressor; class B basic helix-loop-helix protein 21; negative vitamin D response element-binding protein; transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47);
Entrez Gene ID	6929
mRNA Refseq	NM_001136139.2
Protein Refseq	NP_001129611.1
UniProt ID	P15923
Chromosome Location	19p13.3
Pathway	CDO in myogenesis, organism-specific biosystem; Ca2+ pathway, organism-specific biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Developmental Biology, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem; Id Signaling Pathway, organism-specific biosystem; Myogenesis, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Regulation of nuclear SMAD2/3 signaling, organism-specific
Function	DNA binding; contributes_to DNA binding; DNA binding; E-box binding; contributes_to E-box binding; contributes_to E-box binding; bHLH transcription factor binding; chromatin binding; mitogen-activated protein kinase kinase kinase binding; protein binding;

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