## TCRB1(Texas Red)/CEN7q(FITC) FISH Probe

Catalog # FA0541 Size 200 uL

Specification	
Product Description	Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridiz ation Technique. ( <u>Technology</u> ).
Origin	Human
Source	Genomic DNA
Reactivity	Human
Notice	We <b>strongly recommend</b> the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: <u>KA2375</u> or <u>KA2691</u> ) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections.
Regulation Status	For research use only (RUO)
Supplied Product	DAPI Counterstain (1500 ng/mL ) 250 uL
Storage Instruction	Store at 4°C in the dark.

## Applications

• Fluorescent In Situ Hybridization (Cell)

Protocol Download

Gene Info — TRB@	
Entrez GenelD	<u>6957</u>
Gene Name	TRB@
Gene Alias	TCRB, TRB
Gene Description	T cell receptor beta locus

Copyright © 2023 Abnova Corporation. All Rights Reserved.

😭 Abnova **Product Information Omim ID** 186930 Gene Ontology **Hyperlink Gene Summary** T cell receptors recognize foreign antigens which have been processed as small peptides and bo und to major histocompatibility complex (MHC) molecules at the surface of antigen presenting cell s (APC). Each T cell receptor is a dimer consisting of one alpha and one beta chain or one delta and one gamma chain. In a single cell, the T cell receptor loci are rearranged and expressed in th e order delta, gamma, beta, and alpha. If both delta and gamma rearrangements produce function al chains, the cell expresses delta and gamma. If not, the cell proceeds to rearrange the beta and alpha loci. This region represents the germline organization of the T cell receptor beta locus. The beta locus includes V (variable), J (joining), diversity (D), and C (constant) segments. During T cell development, the beta chain is synthesized by a recombination event at the DNA level joining a D segment with a J segment; a V segment is then joined to the D-J gene. The C segment is later joi ned by splicing at the RNA level. Recombination of many different V segments with several J seg ments provides a wide range of antigen recognition. Additional diversity is attained by junctional d iversity, resulting from the random additional of nucleotides by terminal deoxynucleotidyltransferas e. Several V segments and one J segment of the beta locus are known to be incapable of encodi ng a protein and are considered pseudogenes. The beta locus also includes eight trypsinogen ge nes, three of which encode functional proteins and five of which are pseudogenes. Chromosomal abnormalities involving the T-cell receptor beta locus have been associated with T-cell lymphoma s. [provided by RefSeq

**Other Designations** 

T-cell antigen receptor, beta polypeptide, T-cell receptor, beta cluster|T-cell receptor, beta cluster

## Disease

- Arthritis
- Asthma
- Autoimmune Diseases
- Genetic Predisposition to Disease
- Helicobacter Infections
- Inflammation
- Liver Cirrhosis
- Lupus Erythematosus
- Malaria
- Multiple Sclerosis
- Neoplasms

🖗 Abnova

**Product Information** 

- Parasitemia
- Peptic Ulcer