

IGH/FOXP1 DY Translocation FISH Probe

Catalog # FT0015 Size 200 uL, 100 uL

Applications



Hybridization position of the probes on the chromosome:

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| Specification | |
|---------------------|---|
| Product Description | Labeled FISH probes for identification of gene transloaction using Fluorescent In Situ Hybridization T echnique. (<u>Technology</u>). |
| Probe 1 | Name: IGH |
| | Size: Approximately 1,550kb |
| | Fluorophore: FITC |
| | Location: 14q23 |
| Probe 2 | Name: FOXP1 |
| | Size: Approximately 1,180kb |
| | Fluorophore: Texas Red |
| | Location: 3p14.1 |
| Origin | Human |

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Product Information

| Source | Genomic DNA |
|-------------------------|---|
| Reactivity | Human |
| Form | Liquid |
| Notice | We strongly recommend 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) |
| Quality Control Testing | Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The I eft image is chromosomes at metaphase, and the right image is an interphase nucleus. |
| Supplied Product | DAPI Counterstain (1500 ng/mL) 125 uL for each 100 uL FISH Probe |
| Storage Instruction | Store at 4°C in the dark. |
| Note | Hybridization position of the probes on the chromosome: Hybridization position of the probes on the chromosome: |

Applications

Fluorescent In Situ Hybridization (Cell)
<u>Protocol Download</u>

Gene Info — IGH

| Entrez GenelD | <u>3492</u> |
|------------------|---|
| Gene Name | IGH |
| Gene Alias | IGH, IGH.1@, IGHDY1, MGC72071, MGC88774 |
| Gene Description | immunoglobulin heavy locus |
| Gene Ontology | Hyperlink |



Product Information

Gene Summary

Immunoglobulins recognize foreign antigens and initiate immune responses such as phagocytosi s and the complement system. Each immunoglobulin molecule consists of two identical heavy cha ins and two identical light chains. This region represents the germline organization of the heavy ch ain locus. The locus includes V (variable), D (diversity), J (joining), and C (constant) segments. Du ring B cell development, a recombination event at the DNA level joins a single D segment with a J segment; this partially rearranged D-J gene is then joined to a V segment. The rearranged V-D-J i s then transcribed with the IGHM constant region; this transcript encodes a mu heavy chain. Later in development B cells generate V-D-J-Cmu-Cdelta pre-messenger RNA, which is alternatively s pliced to encode either a mu or a delta heavy chain. Mature B cells in the lymph nodes undergo s witch recombination, so that the V-D-J gene is brought in proximity to one of the IGHG, IGHA, or I GHE genes and each cell expresses either the gamma, alpha, or epsilon heavy chain. Recombin ation of many different V segments with several J segments provides a wide range of antigen rec ognition. Additional diversity is attained by junctional diversity, resulting from the random addition al of nucleotides by terminal deoxynucleotidyltransferase, and by somatic hypermutation, which oc curs during B cell maturation in the spleen and lymph nodes. Several V, D, J, and C segments are known to be incapable of encoding a protein and are considered pseudogenes. [provided by Ref Seq

Other Designations

Gene Info — FOXP1

| Entrez GenelD | 27086 |
|--------------------|--|
| Gene Name | FOXP1 |
| Gene Alias | 12CC4, FLJ23741, HSPC215, MGC12942, MGC88572, MGC99551, QRF1, hFKH1B |
| Gene Description | forkhead box P1 |
| Omim ID | <u>605515</u> |
| Gene Ontology | <u>Hyperlink</u> |
| Gene Summary | This gene belongs to subfamily P of the forkhead box (FOX) transcription factor family. Forkhead box transcription factors play important roles in the regulation of tissue- and cell type-specific gen e transcription during both development and adulthood. Forkhead box P1 protein contains both D NA-binding- and protein-protein binding-domains. This gene may act as a tumor suppressor as it is lost in several tumor types and maps to a chromosomal region (3p14.1) reported to contain a tu mor suppressor gene(s). Alternative splicing results in multiple transcript variants encoding differe nt isoforms. [provided by RefSeq |
| Other Designations | fork head-related protein like B glutamine-rich factor 1 |

Disease

Apraxias

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Product Information

- <u>Cardiovascular Diseases</u>
- <u>Chromosome Aberrations</u>
- Developmental Disabilities
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Tobacco Use Disorder
- <u>Vitiligo</u>