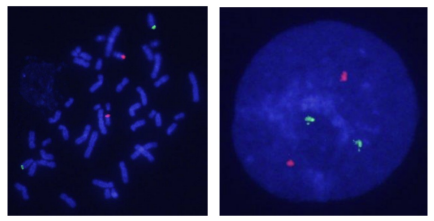
Sm Size

IGH/MAF DY Translocation FISH Probe

Catalog # FT0050 Size 100 uL, 200 uL

Applications



Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The left image is chromosomes at metaphase, and the right image is an interphase nucleus.

Hybridization position of the probes on the chromosome.

Hybridization position of the probes on the chromosome.

Specification

Probe 1	**Name:** IGH **Size:** Approximately 1800kb **Fluorophore:** FITC **Location:** 14q32
Probe 2	**Name:** MAF **Size:** Approximately 1020kb **Fluorophore:** FITC **Location:** 16q23.2
Regulation Status	For research use only (RUO)
Source	Genomic DNA

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Origin	Human
Notice	We **strongly recommend** the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections.
Self-Attestation	Abnova self-attests to comply with the U.S. Framework for Nucleic Acid Synthesis Screening
Product Description	Labeled FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization T echnique. (Technology).
Reactivity	Human
Form	Liquid
Quality Control Testing	Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The l eft image is chromosomes at metaphase, and the right image is an interphase nucleus. Representative images of normal human cell (lymphocyte) stain with the dual color FISH probe. The l eft image is chromosomes at metaphase, and the right image is an interphase nucleus.
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 (Formalin/PFA-fixed paraffin-embedded sections)

  Protocol Download

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

Gene Info — IGH

Entrez GeneID	3492
Gene Name	IGH
Gene Alias	IGH, IGH.1@, IGHDY1, MGC72071, MGC88774
Gene Description	immunoglobulin heavy locus

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Gene Ontology	Hyperlink
Gene Summary	Immunoglobulins recognize foreign antigens and initiate immune responses such as phagocytosis and the complement system. Each immunoglobulin molecule consists of two identical heavy chains and two identical light chains. This region represents the germline organization of the heavy chain locus. The locus includes V (variable), D (diversity), J (joining), and C (constant) segments. During 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 is 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 spliced to encode either a mu or a delta heavy chain. Mature B cells in the lymph nodes undergo switch recombination, so that the V-D-J gene is brought in proximity to one of the IGHG, IGHA, or IGHE genes and each cell expresses either the gamma, alpha, or epsilon heavy chain. Recombination of many different V segments with several J segments provides a wide range of antigen recognition. Additional diversity is attained by junctional diversity, resulting from the random addition al of nucleotides by terminal deoxynucleotidyltransferase, and by somatic hypermutation, which occurs 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 RefSeq
Other Designations	-

Gene Info — MAF

Entrez GeneID	4094
Gene Name	MAF
Gene Alias	MGC71685, c-MAF
Gene Description	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
Omim ID	177075 610202
Gene Ontology	Hyperlink
Other Designations	Avian musculoaponeurotic fibrosarcoma (MAF) protooncogene|OTTHUMP00000196745|T lymphocyte c-maf long form|c-maf proto-oncogene|v-maf musculoaponeurotic fibrosarcoma oncogene homolog

Disease

- Birth Weight
- Cardiovascular Diseases
- Chromosome Aberrations

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- Diabetes Mellitus
- Genetic Predisposition to Disease
- Obesity

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