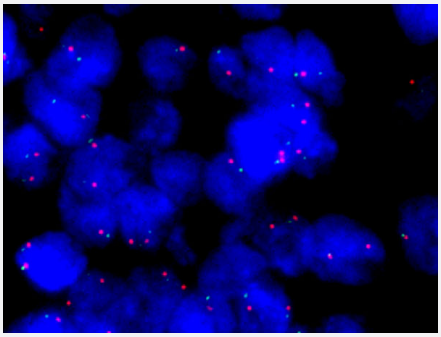
Sm Size

# HMGA2/CEN12q FISH Probe

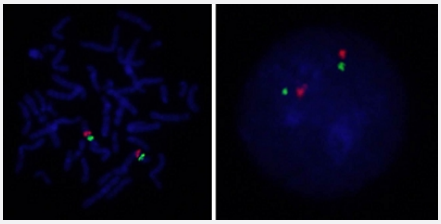
Catalog # FG0137 Size 200 uL, 100 uL

## Applications



### Fluorescent *In Situ* Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

human ovary cancer (FFPE) stained with HMGA2/CEN12q FISH Probe . human ovary cancer showed no HMGA2 amplification.



### Hybridization position of the probes on the chromosome.

Hybridization position of the probes on the chromosome.

## Specification

| | |
|---|---|
| **Product Description** | Labeled FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization T echnique. (Technology). |

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|---|---|
| **Probe 1** | **Name:** HMGA2<br>**Size:** Approximately 430kb<br>**Fluorophore:** Texas Red<br>**Location:** 12q15 |
| **Probe 2** | **Name:** CEN12q<br>**Size:** Approximately 580kb<br>**Fluorophore:** FITC<br>**Location:** 12q12 |
| **Probe Gap** | The gap between two probes is approximately 22,100 kb. |
| **Origin** | Human |
| **Source** | Genomic DNA |
| **Reactivity** | Human |
| **Form** | Liquid |
| **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. |
| **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 l eft image is chromosomes at metaphase, and the right image is an interphase nucleus. |
| **Supplied Products** | 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.<br>Hybridization position of the probes on the chromosome. |
| **Self-Attestation** | Abnova self-attests to comply with the U.S. Framework for Nucleic Acid Synthesis Screening |

## Applications

- Fluorescent *In Situ* Hybridization (Formalin/PFA-fixed paraffin-embedded sections)

  human ovary cancer (FFPE) stained with HMGA2/CEN12q FISH Probe . human ovary cancer showed no HMGA2 amplification.

  Protocol Download

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

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## Gene Info — HMGA2

| | |
|---|---|
| **Entrez GeneID** | 8091 |
| **Gene Name** | HMGA2 |
| **Gene Alias** | BABL, HMGI-C, HMGIC, LIPO, STQTL9 |
| **Gene Description** | high mobility group AT-hook 2 |
| **Omim ID** | 151900 600698 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a protein that belongs to the non-histone chromosomal high mobility group (HMG) protein family. HMG proteins function as architectural factors and are essential components of the enhancesome. This protein contains structural DNA-binding domains and may act as a transcriptional regulating factor. Identification of the deletion, amplification, and rearrangement of this gene that are associated with myxoid liposarcoma suggests a role in adipogenesis and mesenchymal differentiation. A gene knock out study of the mouse counterpart demonstrated that this gene is involved in diet-induced obesity. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq |
| **Other Designations** | High-mobility group protein HMGI-C\|high-mobility group (nonhistone chromosomal) protein isoform I-C |

## Disease

- Brain Neoplasms
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Glioma
- Insulin Resistance
- Leiomyoma
- Osteoarthritis
- Uterine Neoplasms

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- Ventricular Dysfunction

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