ERG (21q22) Break Apart (Red/Green)

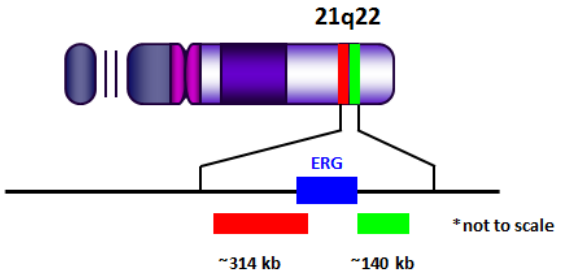
FISH Probe
902-7011-102517

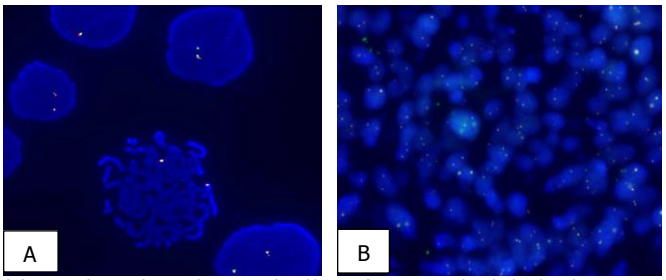
Catalog Number: PFR7011A
Description: ERG (21q22) Break Apart FISH Probe (Red/Green)
Dilution: Ready-to-use
Volume: 100 µL

Intended Use:
For Research Use Only. Not for use in diagnostic procedures.

Summary and Explanation:
The ERG (21q22) Break Apart probe is designed to detect chromosomal rearrangements involving the ETS-related gene (ERG) on chromosome 21q22. ERG is the most commonly overexpressed proto-oncogene in prostate cancer[1].

Principle of Procedure:
The ERG (21q22) Break Apart FISH probe is a dual color design optimized to detect rearrangements of the ERG gene on 21q22. The ~314kb probe labeled in red flanks the centromeric end of the ERG gene and the ~140kb probe labeled in green flanks the telomeric end of the ERG gene. When the probe is hybridized to a normal cell it will show two red/green (yellow) fusion signal patterns.





(A) ERG (21q22) Break Apart (Red/Green) FISH probe hybridized on normal blood sample. Interphase and metaphase cellular states are shown. (B) ERG (21q22) Break Apart (Red/Green) FISH probe hybridized on FFPE tissue.

Species Reactivity: Human
Known Application: Fluorescence In-situ Hybridization (FISH) on formalin-fixed paraffin embedded (FFPE) tissues.
Supplied As: Probe in hybridization buffer.

Storage and Stability:
Store probe at -20ºC and away from light. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date.

Technical Note:
Biocare Medical Break Apart FISH probes are optimized to provide the best signal performance using optical filters that can accommodate the excitation/emission wavelengths specified below. Using filters outside these spectral specifications may produce sub-optimal results.

Fluorophore	Excitation (nm)	Emission (nm)
GREEN	498	522
RED	592	628

Precautions:
1. This product is Research Use Only.
2. It is the responsibility of the user to validate any test for its specific use.
3. This product contains formamide, which may be toxic. Formamide may cause serious eye damage or reproductive toxicity. It may also cause irritation by inhalation or skin contact. Avoid any direct contact exposure to reagent. Take appropriate protective measures (use disposable gloves, protective glasses, and lab garments).
4. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water[2].
5. The SDS is available upon request and is located at http://biocare.net/.

Technical Support:
Contact Biocare's Technical Support at 1-800-542-2002 for questions regarding this product.

References:

1. Fitzgerald, Liesel M, Ilir Agalliu, Karynn Johnson, Melinda A Miller, Erika M Kwon, Antonio Hurtado-Coll, Ladan Fazli, Ashish B Rajput, Martin E Gleave, Michael E Cox, Elaine A Ostrander, Janet L Stanford, and David G Huntsman. "Association of TMPRSS2-ERG Gene Fusion with Clinical Characteristics and Outcomes: Results from a Population-based Study of Prostate Cancer." BMC Cancer: 230.

2. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory workers from occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.

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