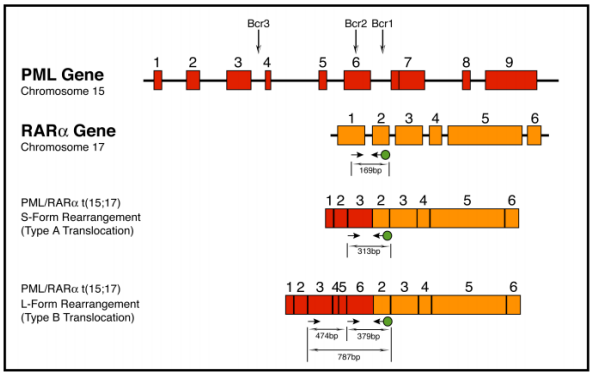
TRUPCR® PML/RaRaDetection and Quantitation Real-Time PCR kits



TRUPCR® PML-RARA is an in-vitro nucleic acid amplification assay for the qualitative and quantitative detection of *PML*/*RAR*-alpha fusion transcriptsin human clinical samples.In this multi-tube assay, extracted RNA is subjected to a separate real-time reverse transcription-polymerase chain reaction (RT-PCR) procedures to detect and quantitate long (L or bcr1),variant (V or bcr2) and short (S or bcr3) isoforms simultaneously.An additional amplification for the *ABL* gene is performed as a control for sample RNA quality and as a reference for relative quantification.

Key features:

- First commercial assay to accurately detect, differentiate and quantify***bcr1,bcr2 &bcr3*** fusion transcripts
- Detection and differentiation of both ***5' and 3' forms of bcr2 (variant) form***.
- Higher sensitivity and specificity with easy workflow and quick analysis
- All the reagents required for the test included in the kit
- Compatible with various real time PCR instruments

Detection of the *PML*/*RARA* t(15;17) translocation is diagnostic foracute promyelocytic leukemia(APL), although the diagnosis can also be based on morphology. Investigations suggest that 99% of APL patients harbor a translocation between chromosomes 15 and 17, which fuses the retinoic acid receptor alpha (RARA) gene on chromosome 17 with the PML gene on chromosome 15. Detection of the PML/RARA t(15;17) translocation is therefore used within clinical research as an identifier for APL. Depending on the location of breakpoints within the PML site, intron 6, exon 6 and intron 3, the

respective PML-RARa transcript subtypes referred to as long (L or bcr1), variant (V or bcr2) and short (S or bcr3), may be formed. They represent 50-55%, 5-10% and 30-40% of the cases respectively.

The presence of this translocation is necessary for response to all-*trans*-retinoic acid and arsenic trioxide. Thus, the *PML*/*RARA* t(15;17) assay is useful for diagnosis and predicting treatment response. It is also helpful for monitoring therapeutic response and MRD and for detecting early relapse.

Ordering information:

Cat. No.	Product	Contents
3B1258	TRUPCR® PML/RARA Qualitative Kit	48Rxn
3B1255	TRUPCR® PML/RARA Qualitative Kit	96Rxn
3B1259	TRUPCR® PML/RARA Quantitative Kit	48Rxn
3B1260	TRUPCR® PML/RARA Quantitative Kit	96Rxn

For enquiries please email us at : info@3bblackbio.com Or
Visit us at www.3bblackbio.com