Cat Nr/REF: KBI-10712

English

For professional use only

Poseidon™ Repeat Free™ SRD (1p36) & SE 1 Control probe

Introduction: Deletions affecting the short arm of chromosome 1 (1p) are among the most commonly observed chromosomal aberrations in maligancies and have been identified as adverse prognostic factor in subsets of tumors. A new smallest region of consistent deletion (SRD) has been identified in human neuroblastomas located between markers D1S2795 and D1S253*. One or more genes involved in neuroblastoma tumorigenesis or tumor progression are likely contained within this region.

Intended use: The **SRD 1p36** specific DNA Probe is optimized to detect copy numbers of 1p at region 1p36.
The Chromosome 1 Satellite Enumeration (SE) probe is included to facilitate chromosome identification.

The probe is recommended to be used in combination with a Poseidon FISH Kit providing necessary reagents to perform FISH (KBI-60002, KBI-60003 or KBI-60001) for optimal results.

Critical region 1 (red): The **SRD 1p36** specific DNA probe is direct-labeled with Platinum*Bright*550.

Control region 2 (green): The **SE 1** control DNA probe gene region is direct-labeled with Platinum*Bright*495.

Reagent: Poseidon probes are direct-labeled DNA probes provided in a ready-to-use format. Apply 10 µl of probe to a sample area of approximately 22 x 22 mm.

Please refer to the Instructions for Use for the entire Poseidon FISH protocol.

Poseidon Repeat Free probes do not contain Cot-1 DNA. Hybridization efficiency is therefore increased and background, due to unspecific binding, is highly reduced.

Interpretation: The **SRD 1p36** probe is designed as a dual-color assay to detect deletions at 1p36. Deletions involving the 1p36 region will show one red signal, while the control at the chromosome 1 centromere will provide 2 signals (3R2G). Two single color red (R) and green (G) signals will identify the normal chromosomes 1 (2R2G).

	Normal Signal Pattern	Del(1p36)
Expected Signals	2R2G	1R2G

References:
Van Roy N et al, 1997, Cancer Genet. Cytogenet., 97; 135-142
*White P et al, 2005, Oncogene 24; 2684–2694

POSEIDON™
REPEAT-FREE™ FISH PROBES

Application Manual

KBI-10712
ON SRD (1p36) / SE 1

IVD
for EU only

CE

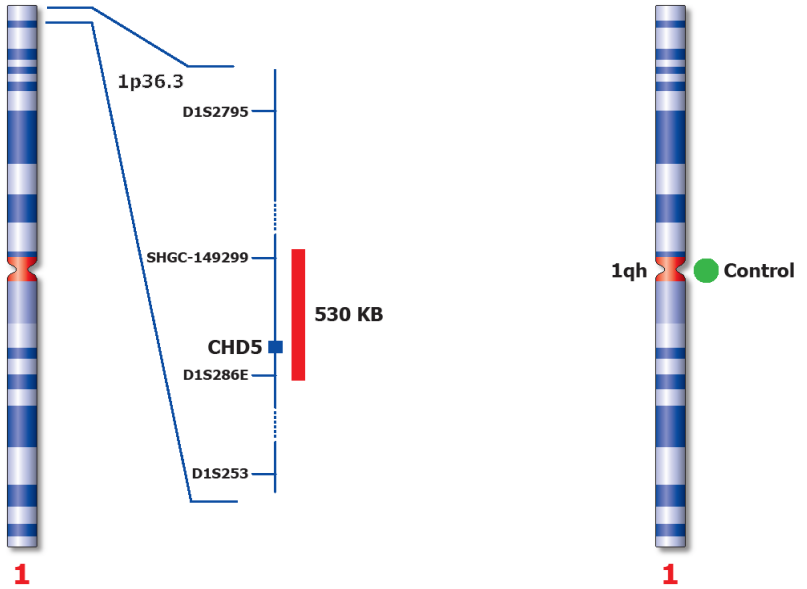
KREATECH Diagnostics
Vlierweg 20
1032 LG Amsterdam
The Netherlands

2°C 8°C long term storage

KREATECH DIAGNOSTICS

Published Dec 2007

www.poseidondiagnostics.com



Not to scale

Application manual