

ASS1/SMAD6 FISH Probe Kit

Introduction

The ASS1/SMAD6 FISH Probe Kit is designed to detect the human ASS1 gene located on chromosome band 9q34.11, and the SMAD6 gene on chromosome band 15q22.31. Abnormal expression of the ASS1 gene – also called ASS or CTLN1 – occur in citrullinemia type I (CTLN1), also known as classic citrullinemia. Abnormalities in SMAD6 – also known as AOVD2, MADH6, MADH7 or HsT17432 – are associated with cardiac valve defects and developmental deficiencies. SMAD6 expression has been reported to promote cell survival in lung cancer and other tumor types.

Intended Use

To measure the copy number of the human ASS1 and SMAD6 genes located on chromosome bands 9q34.11 and 15q22.31, respectively.

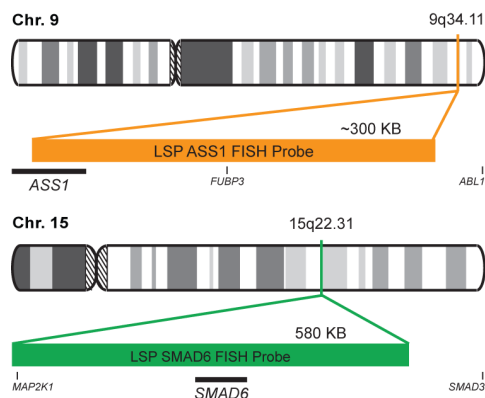
Cont.

Color

LSP ASS1 FISH Probe
LSP SMAD6 FISH Probe

CytoOrange
CytoGreen

Probe Design



LSP ASS1 FISH Probe covers a chromosomal region which includes the ASS1 gene and some genomic sequences adjacent to the 3' end of the gene. LSP SMAD6 FISH Probe covers a chromosomal region which includes the entire SMAD6 gene.

Cat. No.

Volume

CT-PAC171-10-OG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

202G

Abnormal Patterns

Other Patterns

- 1) Carritt B. *Cytogenet Cell Genet.* 19(1):44-8 (1977).
- 2) Kobayashi K, et al. *Mol Biol Med.* 8(1):95-100 (1991).
- 3) Gao HZ, et al. *Hum Mutat.* 22(1):24-34 (2003).
- 4) Engel K, et al. *Hum Mutat.* 30(3):300-7 (2009).
- 5) Larövere LE, et al. *Clin Biochem.* 42(10-11):1166-8 (2009).

* CE IVD only available in certain countries. All other countries are either ASR or RUO. Please contact your local dealer or our headquarters for more information.

DCN032

© CytoTest Inc.



CytoTest Inc.
1395 Piccard Drive, Suite 308
Rockville, MD 20850, USA