

PRKAR1B/CCP7 FISH Probe Kit

Introduction

The PRKAR1B/CCP7 FISH Probe Kit is designed to detect the human PRKAR1B gene located on chromosome band 7p22.3, along with the number of chromosome 7 copies per cell. Mutations in PRKAR1B – also known as MASNS or PRKAR1 – are associated with low-grade glioma, pancreatic adenocarcinoma, pilocytic astrocytoma, thyroid gland papillary carcinoma and other malignancies.

Intended Use

To measure the copy number of the human *PRKAR1B* gene located on chromosome band 7p22.3.

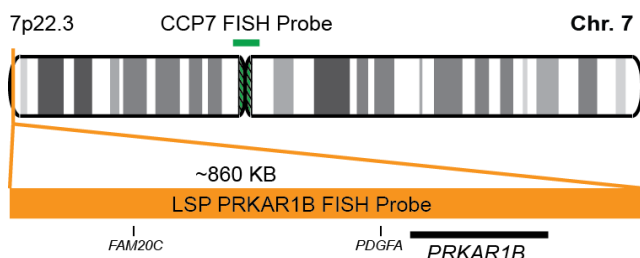
Cont.

Color

LSP PRKAR1B FISH Probe
CCP7 FISH Probe

CytoOrange
CytoGreen

Probe Design



Not to Scale

LSP PRKAR1B FISH Probe covers a chromosomal region, which includes the entire *PRKAR1B* gene. CCP7 FISH Probe, derived from chromosome 7 specific alpha satellite DNA, is designed to serve as a control to determine the number of chromosome 7 copies per cell.

Cat. No.

Volume

CT-PAC268-10-OG

10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns

2O2G

Abnormal Patterns

Other Patterns

- 1) Wong TH, et al. *Brain*. 137(Pt 5):1361-73 (2014).
- 2) Solberg R, et al. *Exp Cell Res*. 214(2):595-605 (1994).
- 3) Tasken K, et al. *J Biol Chem*. 268(28):21276-83 (1993).
- 4) Solberg R, et al. *Biochem Biophys Res Commun*. 176(1):166-72 (1991).
- 5) Adachi M & Lewis EJ. *J Biol Chem*. 277(25):22915-24 (2002).

* 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

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