

## HRAS/CCP11 FISH Probe Kit

### Introduction

The HRAS/CCP11 FISH Probe Kit is designed to detect the human HRAS gene located on chromosome band 11p15.5, along with the number of chromosome 11 copies per cell. Defects in HRAS – also known as CTLO, HAMSIV, HRAS1, RASH1, p21ras, C-H-RAS, H-RASIDX, C-BAS/HAS or C-HA-RAS1 – are implicated in a variety of cancers, including bladder cancer, follicular thyroid cancer, and oral squamous cell carcinoma.

### Intended Use

To measure the copy number of the human *HRAS* gene located on chromosome band 11p15.5.

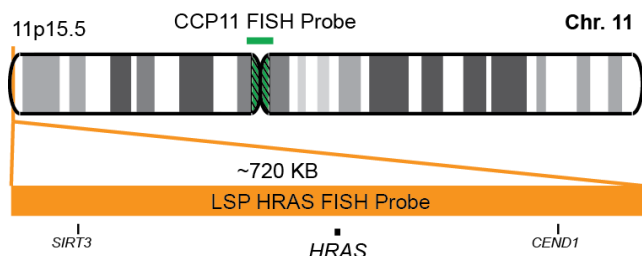
### Cont.

### Color

LSP HRAS FISH Probe  
CCP11 FISH Probe

CytoOrange  
CytoGreen

### Probe Design



Not to Scale

LSP HRAS FISH Probe covers a chromosomal region, which includes the entire *HRAS* gene. CCP11 FISH Probe, derived from chromosome 11-specific alpha satellite DNA, is designed to serve as a control to determine the number of chromosome 11 copies per cell.

### Cat. No.

### Volume

CT-PAC275-10-OG

10 Tests (100 µL)

### Signal Pattern Interpretation

#### Normal Patterns

202G

#### Abnormal Patterns

Other Patterns

- 1) Chiosea S, et al. *Head Neck Pathol.* 8(2):146-50 (2014).
- 2) Beukers W, et al. *Eur J Hum Genet.* 22(6):837-9 (2014).
- 3) Califano R, et al. *Drugs.* 72 Suppl 1:28-36 (2012).
- 4) Maemoto S, et al. *Odontology.* 100(2):149-55 (2012).
- 5) Ivkovic TC, et al. *Int J Oncol.* 35(5):1169-73 (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.

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