CytoTest®

Premium **FISH** for Quality of Lives

ENGLISH

For Professional Use Only

PAFAH1B1/RARA FISH Probe Kit

Introduction

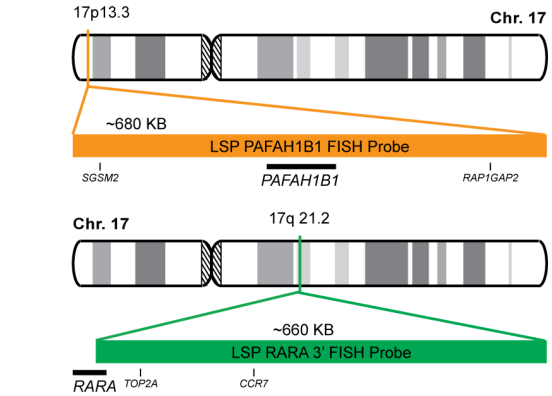
The PAFAH1B1/RARA FISH Probe Kit is designed to detect the human PAFAH1B1 gene located on chromosome band 17p13.3 and the human RARA gene region located on chromosome band 17q21.2 as a control to determine the number of chromosome 17 or chromosome 17 q-arm copies per cell. Abnormal expression of the PAFAH1B1 gene – also known as MDS, LIS1, LIS2, MDCR, NudF, PAFAH – has been observed in small-cell lung carcinoma and several other solid tumor types. Loss of the gene is observed in Miller-Dieker Syndrome patients.

Intended Use

To measure the copy number of the human *PAFAH1B1* gene located on chromosome band 17p13.3.

Cont.	Color
LSP PAFAH1B1 FISH Probe	CytoOrange
LSP RARA 3' FISH Probe	CytoGreen

Probe Design



Not to Scale

LSP PAFAH1B1 FISH Probe covers a chromosomal region, which includes the entire *PAFAH1B1* gene along with some upstream and downstream genomic sequences. LSP RARA 3‘ FISH Probe covers the 3’ (end) part as well as sequences downstream of the gene, designed to serve as a control to determine the number of chromosome 17 or chromosome 17 q-arm copies per cell.

Cat. No.	Volume
CT-PAC474-10-OG	10 Tests (100 µL)

Signal Pattern Interpretation

Normal Patterns	Abnormal Patterns
2O2G	Other Patterns

1. Lo FY, et al. Lung Cancer 77(3):585-92 (2012).
2. Blazejwski SM, et al. Front. Genet. 9:80 (2018).
3. Emrick LT, et al., Genet. Med. 21(7):1652-1656 (2019).
4. Park CH, et al. Gene 537(2):343-7 (2014).
5. Hyon C, et al. Eur. J. Med. Genet. 54(3):287-91 (2011).

-25°C -15°C

CE IVD

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* 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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