

## ZytoFast® HPV High-Risk (HR) Types Probe



### Background

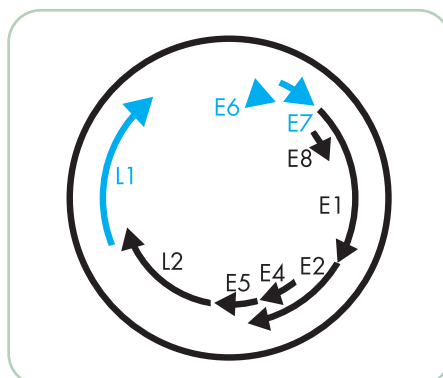
The ZytoFast® HPV High-Risk (HR) Types Probe (PF46) is intended to be used for the qualitative detection of human papillomavirus (HPV) type 16/18/31/33/35/39/45/51/52/56/58/59/66/68/82 DNA in formalin-fixed, paraffin-embedded specimens, such as cervical carcinoma and oropharyngeal squamous cell cancer (OSCC), by chromogenic *in situ* hybridization (CISH). The probe is intended to be used in combination with the ZytoFast® PLUS CISH Implementation Kit HRP-DAB (Prod. No. T-1063-40).

The product is intended for professional use only. All tests using the product should be performed in a certified, licensed anatomic pathology laboratory under the supervision of a pathologist/human geneticist by qualified personnel. The probe is intended to be used as an aid to the differential diagnosis of cervical carcinoma and OSCC and therapeutic measures should not be initiated based on the test result alone.

### Probe Description

ZytoFast® HPV High-Risk (HR) Probe (PF46) is composed of:

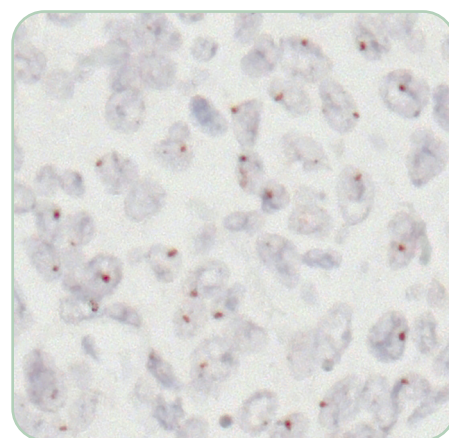
- Digoxigenin-labeled oligonucleotides (~ 2.2 ng/μl) specific for HPV type 16/18/31/33/35/39/45/51/52/56/58/59/66/68/82, which target DNA sequences encoding for HPV 16/18/31/33/35/39/45/51/52/56/58/59/66/68/82 proteins E6, E7, and/or L1.
- The probe also targets the respective RNA sequences of E6, E7, and/or L1 proteins, which are expressed during some stages of infection.
- Formamide based hybridization buffer



Schematic representation of the HPV genome with E and L open reading frames. Genomic regions targeted by ZytoFast® HPV specific oligonucleotides are indicated in blue.

### Results

A positive reactivity for HPV DNA in epithelial cells is indicated by a distinctly stained nucleus. Due to the detection of HPV DNA as well as E6, E7, and/or L1 RNAs, depending on the infection stage, cytoplasmic staining might be observed additionally. Colored precipitates, which can be clearly distinguished from the background, will be dark brown when using DAB as substrate for the detection.



HPV infected cervix tissue hybridized with the ZytoFast® HPV High-Risk (HR) Types Probe, detected with the ZytoFast® PLUS CISH Implementation Kit HRP-DAB.

Prod. No.	Product	Label	Tests* (Volume)
T-1140-400	ZytoFast HPV High-Risk (HR) Types Probe (specific for HPV type 16/18/31/33/35/39/45/51/52/56/58/59/66/68/82) CE 0124 IVD	DIG	40 (400 μl)
<b>Related Products</b>			
T-1063-40	ZytoFast PLUS CISH Implementation Kit HRP-DAB CE IVD		40
Incl. Heat Pretreatment Solution EDTA, 500 ml; Pepsin Solution, 4 ml; 20x Wash Buffer TBS, 4x 50 ml; Mouse-anti-DIG, 4 ml; Anti-Mouse-HRP-Polymer, 4 ml; DAB Solution A, 0.3 ml; DAB Solution B, 10 ml; Nuclear Blue Solution, 20 ml; Mounting Solution (alcoholic), 4 ml			

\* Using 10 μl probe solution per test. IVD labeled products are only available in certain countries. All other countries research use only! Please contact your local dealer for more information.