

ZytoFast® HPV-CISH System



Background

The ZytoFast® HPV type 6/11 Probe (PF25) is intended to be used for the qualitative detection of human papillomavirus (HPV) type 6/11 DNA in formalin-fixed, paraffin-embedded specimens by chromogenic *in situ* hybridization (CISH).

The ZytoFast® HPV type 16/18 Probe (PF26) is intended to be used for the qualitative detection of human papillomavirus (HPV) type 16/18 DNA in formalin-fixed, paraffin-embedded specimens by chromogenic *in situ* hybridization (CISH).

The ZytoFast® HPV type 31/33 Probe (PF27) is intended to be used for the qualitative detection of human papillomavirus (HPV) type 31/33 DNA in formalin-fixed, paraffin-embedded specimens by chromogenic *in situ* hybridization (CISH).

The probes are intended to be used in combination with the ZytoFast® PLUS CISH Implementation Kit HRP-DAB (Prod. No. T-1063-40).

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

Probe Description

ZytoFast® HPV type 6/11 Probe is composed of:

- Digoxigenin-labeled oligonucleotides (~0.6 ng/µl) specific for HPV type 6/11, which target DNA sequences encoding for HPV 6/11 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

The ZytoFast® HPV type 16/18 Probe is composed of:

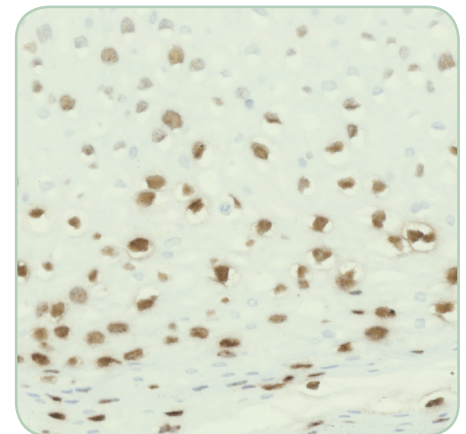
- Digoxigenin-labeled oligonucleotides (~0.6 ng/µl) specific for HPV type 16/18, which target DNA sequences encoding for the HPV 16/18 proteins E6, E7, and/or L1.
- The probe also targets the respective RNA sequences of E6, E7, and/or L1 proteins, which are expressed during some stages of infection.
- Formamide based hybridization buffer

The ZytoFast® HPV type 31/33 Probe is composed of:

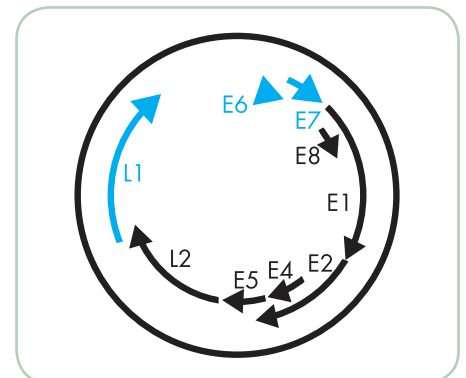
- Digoxigenin-labeled oligonucleotides (~0.6 ng/µl) specific for HPV type 31/33, which target DNA sequences encoding for HPV 31/33 proteins E6, E7, and/or L1.
- The probe also targets the respective RNA sequences of E6, E7, and/or L1 proteins, which are expressed during some stages of infection.
- Formamide based hybridization buffer

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.



Example of an HPV positive signal pattern: HPV infected cervix tissue hybridized with the ZytoFast® HPV type 6/11 Probe, detected with the ZytoFast® PLUS CISH Implementation Kit HRP-DAB.



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.

Prod. No.	Product	Label	Tests* (Volume)
T-1055-400	ZytoFast HPV type 6/11 Probe CE IVD	DIG	40 (400 µl)
T-1056-400	ZytoFast HPV type 16/18 Probe CE IVD	DIG	40 (400 µl)
T-1057-400	ZytoFast HPV type 31/33 Probe CE IVD	DIG	40 (400 µl)
Related Products			
T-1063-40	ZytoFast PLUS CISH Implementation Kit HRP-DAB CE IVD		40
<small>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</small>			

* 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.