

ZytoFast® CMV Probe

RUO

Background

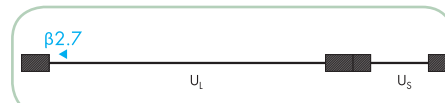
The ZytoFast® CMV Probe (PF28) is intended to be used for the qualitative detection of human cytomegalovirus (CMV) (a.k.a. human herpesvirus-5, HHV-5) DNA in formalin-fixed, paraffin-embedded specimens by chromogenic *in situ* hybridization (CISH).

The ZytoFast® CMV Probe is intended to be used in combination with one of the ZytoFast® PLUS CISH Implementation Kits, either the ZytoFast® PLUS CISH Implementation Kit AP-NBT/BCIP (Prod. No. T-1061-40), the ZytoFast® PLUS CISH Implementation Kit HRP-DAB (Prod. No. T-1063-40), or the ZytoFast® PLUS CISH Implementation Kit AP-Permanent Red (Prod. No. T-1151-40).

Probe Description

The ZytoFast® CMV Probe is composed of:

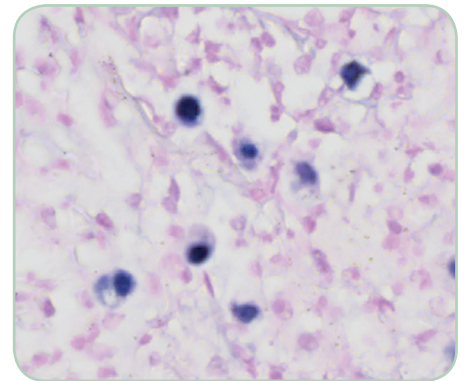
- Digoxigenin-labeled oligonucleotides (~ 0.2 ng/μl), which target DNA sequences encoding the β2.7 gene, the most abundantly transcribed early CMV gene.
- Formamide based hybridization buffer.



Schematic representation of the CMV genome with the β2.7 encoding region indicated in blue. UL and US indicate unique nucleotide sequences, hatched boxes represent terminal and internal repeats.

Results

Due to the detection of CMV DNA as well as of the abundantly transcribed β2.7 RNA, a positive reactivity for cytomegalovirus (CMV) in the target cells is indicated by a cytoplasmic and/or nuclear staining pattern. Depending on the detection chemistry that is used, colored precipitates, which can be clearly distinguished from the background, will be dark violet-blue when using NBT/BCIP as substrate, or strong red when using Permanent Red.



CISH analysis of paraffin-embedded adrenal gland tissue using the ZytoFast® CMV Probe, detected with ZytoFast® PLUS CISH Implementation Kit AP-NBT/BCIP.

Prod. No.	Product	Label	Tests* (Volume)
T-1113-400	ZytoFast CMV Probe RUO	DIG	40 (400 μl)
Related Products			
T-1061-40	ZytoFast PLUS CISH Implementation Kit AP-NBT/BCIP RUO Incl. Heat Pretreatment Solution EDTA, 500 ml; Pepsin Solution, 4 ml; 20x Wash Buffer TBS, 4x 50 ml; Rabbit-anti-DIG, 4 ml; Anti-Rabbit-AP-Polymer, 4 ml; NBT/BCIP Solution, 4ml; Nuclear Red Solution, 20 ml; Mounting Solution (alcoholic), 4 ml		40
T-1151-40	ZytoFast PLUS CISH Implementation Kit AP-Permanent Red RUO Incl. Heat Pretreatment Solution EDTA, 500 ml; Pepsin Solution, 4 ml; 20x Wash Buffer TBS, 4x 50 ml; Rabbit-anti-DIG, 4 ml; Anti-Rabbit-AP-Polymer, 4 ml; Permanent Red Solution A, 0.25 ml; Permanent Red Solution B, 15 ml; Mayer's Hematoxylin Solution, 20 ml; Mounting Solution (alcoholic), 4 ml		40

* Using 10 μl probe solution per test.

RUO For Research Use Only. Not for use in diagnostic procedures.