dGH in-Site™ CAR-T Kit Hardware Requirements

This document provides details on two key pieces of equipment needed to use KromaTiD's dGH in-Site™ CAR-T Kit in your laboratory, namely a UV crosslinker and microscope. A full equipment list is provided in the assay protocol. Here, specific technical details are elaborated upon to optimize assay performance.

UV IRRADIATION

Successful use of the directional Genomic Hybridization™ (dGH™) assay hinges on a delicate balance of exposure to ultraviolet light (UV) that is sufficient to nick daughter strands in the sample cells while sparing the parent strands. This controlled UV irradiation can be accomplished with a UV crosslinker and the following technical recommendations will help produce reliably good results when you use KromaTiD's dGH in-Site™ CAR-T Kit.

UV Crosslinker Unit.
KromaTiD recommends the Spectrolinker™ XL 1000 or XL 1500 UV crosslinker or equivalent.

Wavelength and Bulbs.
Recommendation is to equip the Spectrolinker or equivalent with BLE-1T151 365 nm bulbs.

MICROSCOPY

Light source.
Broad spectrum white light source or multiple LED and/or laser sources.

Light filters / Filter cubes.
Light filters compatible with the fluorophores (probe color labels) being used are required.

Fluorophore	Excitation/Emission (nm)
6-FAM / Spectrum Green	490 / 525
Atto550 / Spectrum Orange	555 / 576
Texas Red	595 / 620
Atto643 / 647 / Cy5	643 / 669

Note: The Atto425/aqua fluorophore label is incompatible with this assay.

Objective Lenses.
High numerical aperture (recommend 1.4 NA), high magnification (minimum 60X) oil immersion objective (recommend 100X.)

Camera.
Monochrome CMOS or sCMOS.

Technical Support Information

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