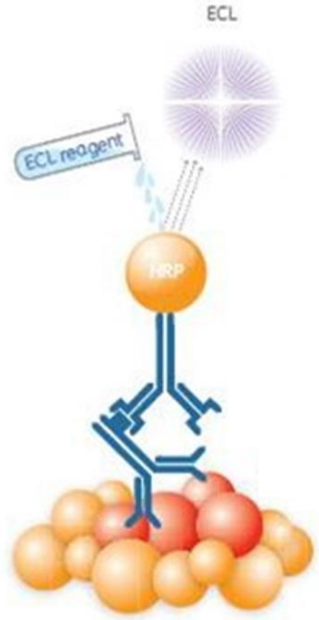


Epi-fluorescence module

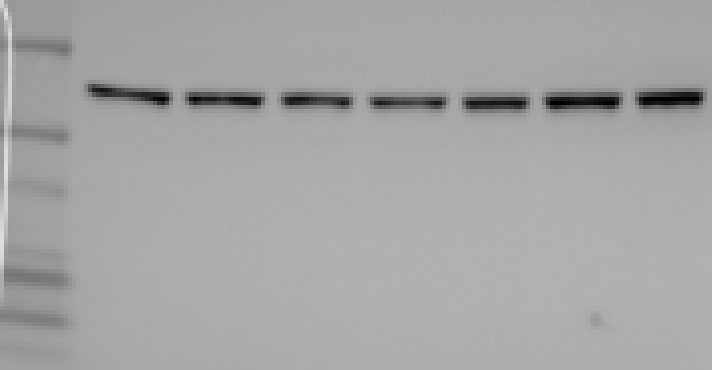
Authentic Imaging Specialists

Chemiluminescent & Fluorescent Western blots



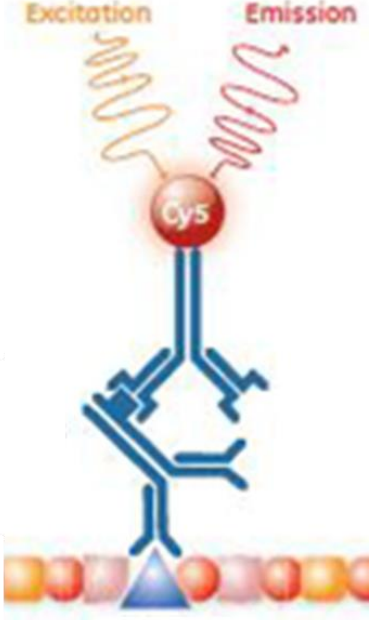
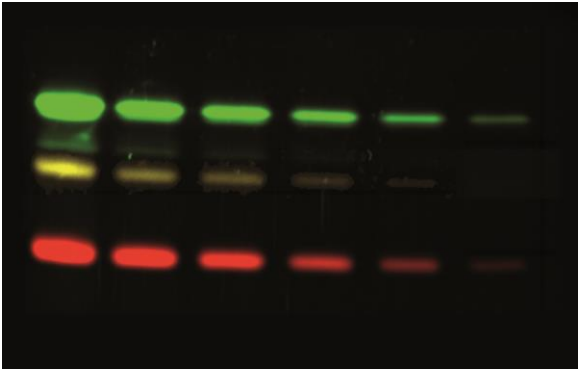
Chemiluminescence

Ab2 + HRP + ECL



Epi-Fluorescence

Ab2 + Fluorophore + irradiation



Irregular, unpredictable signal

from chemical reaction

1 target protein

1 signal, 1 protein

Several target proteins

multiple signals, multiple proteins

Consistent, stable signal

from appropriate irradiation

Re-useable for weeks

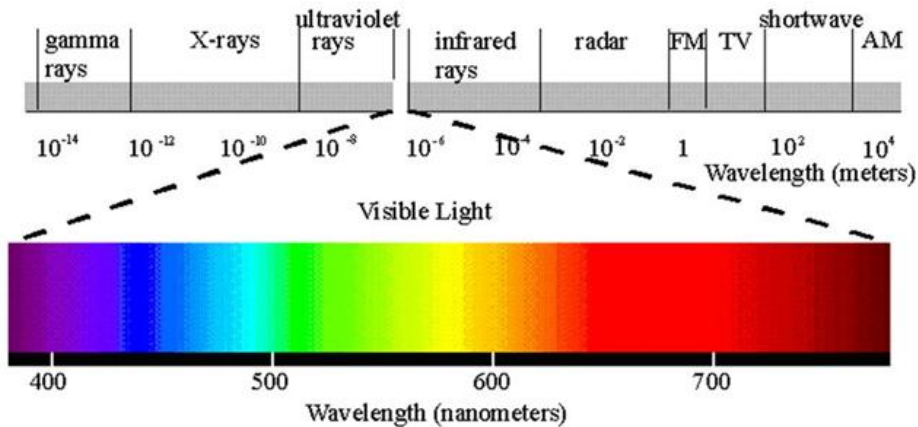
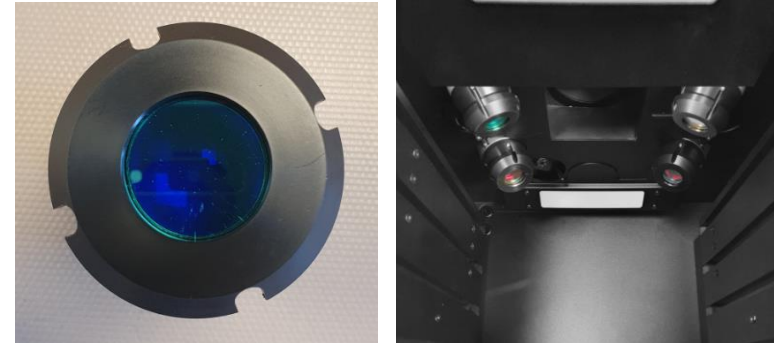
Membrane autofluorescence

Epi-fluorescence module

Alliance™ Series™ Chromapure™

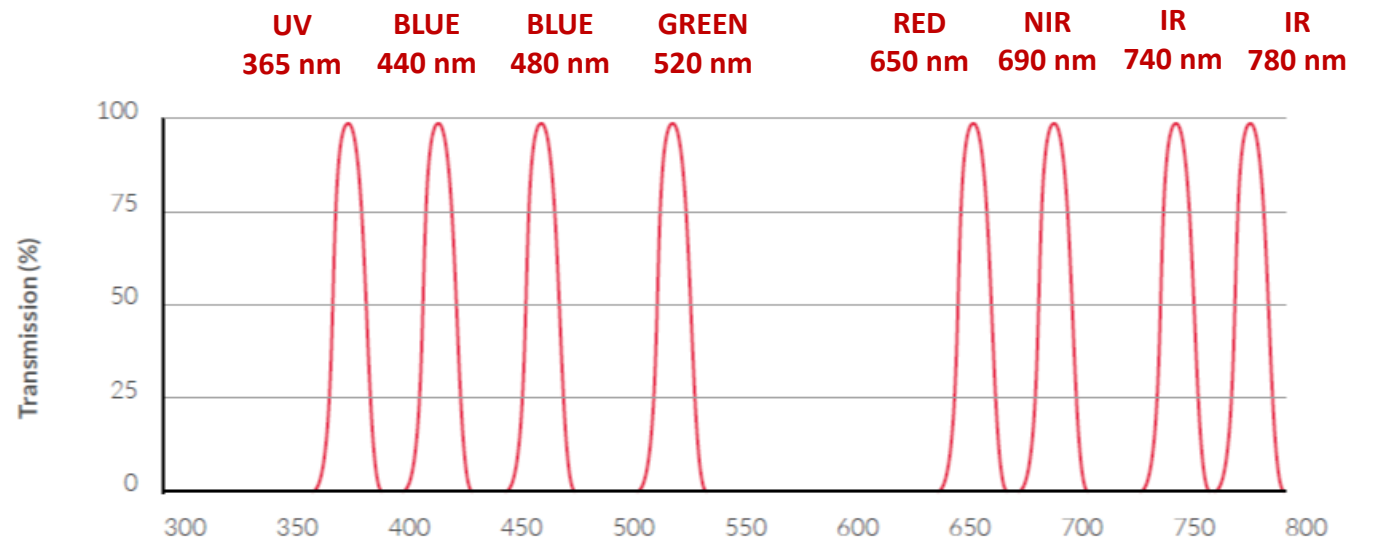
100% customizable with a large choice of **8 high-end excitation channels** with narrow bandpass spectral wavelengths.

Chromapure™ Module



Spectral Fluorescence

Fluorophore + Irradiation

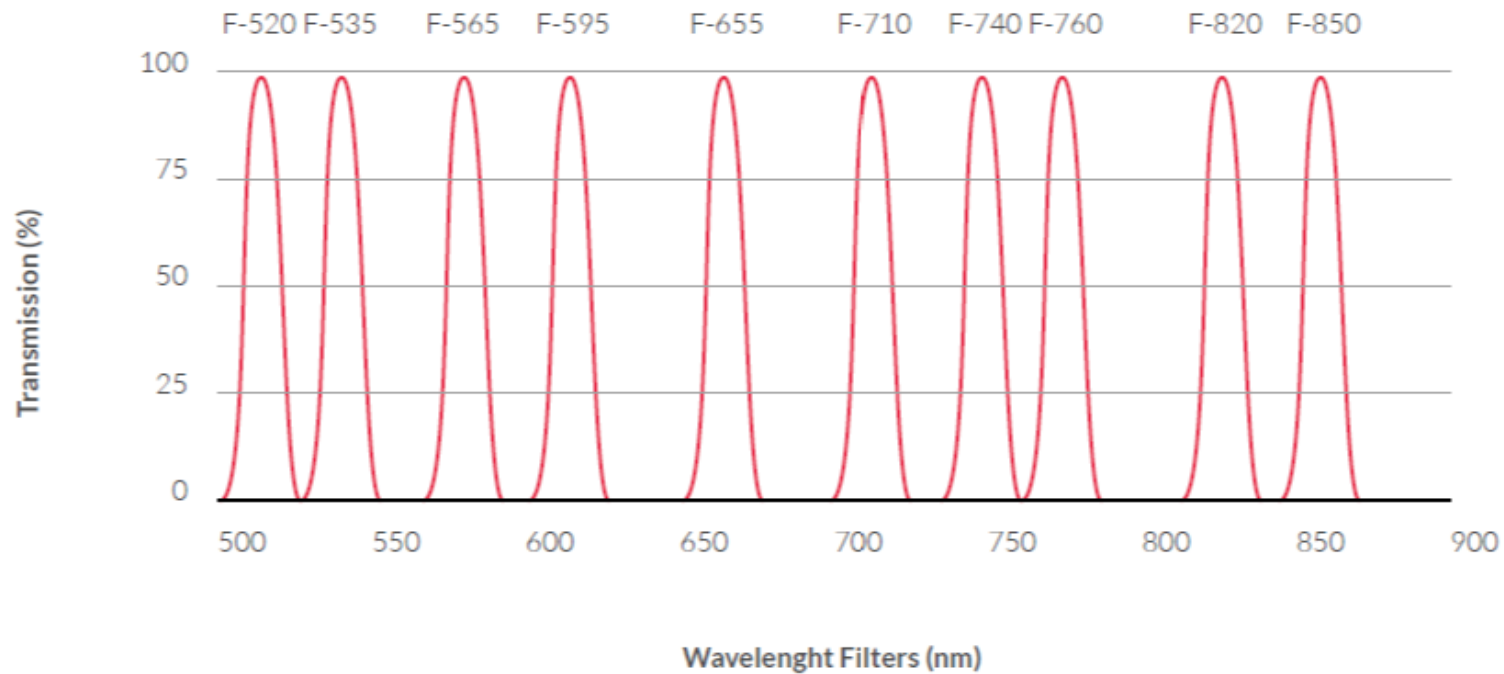


Chromapure™ Wavelengths

Epi-fluorescence module

Hard-coated emission filters

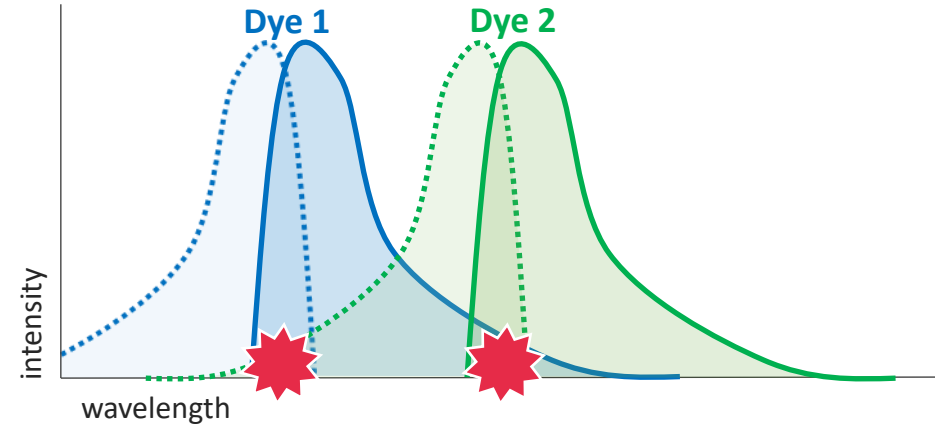
12 top-end, hard-coated **filters** to choose from, offering excellent signal transmission and unrivalled **narrow bandpass** emission curves.



Epi-fluorescence module

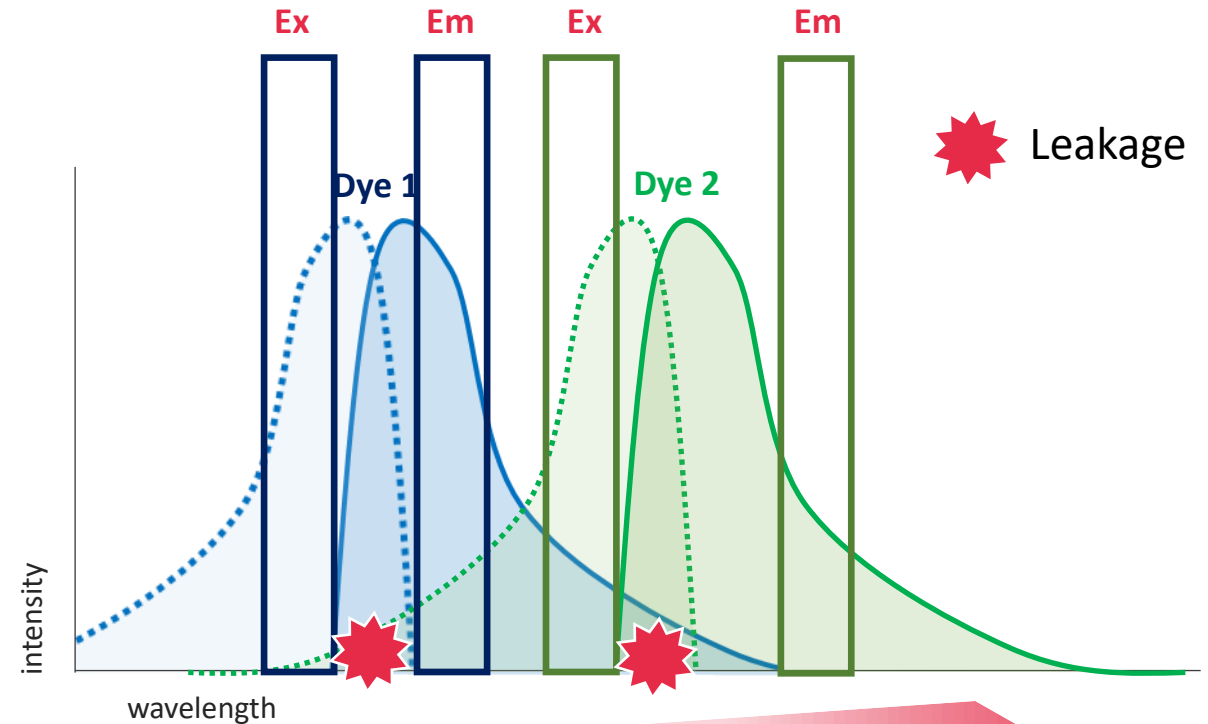
Crosstalk & Overlap Issue

Some dyes excitation and emission spectral wavelengths are too close to one another, resulting in possible signal overlap (Leakage).



Multiplexing Solutions

Guaranteed minimal crosstalk & overlap issues when multiplexing with Chromapure™ modules and emission filters.



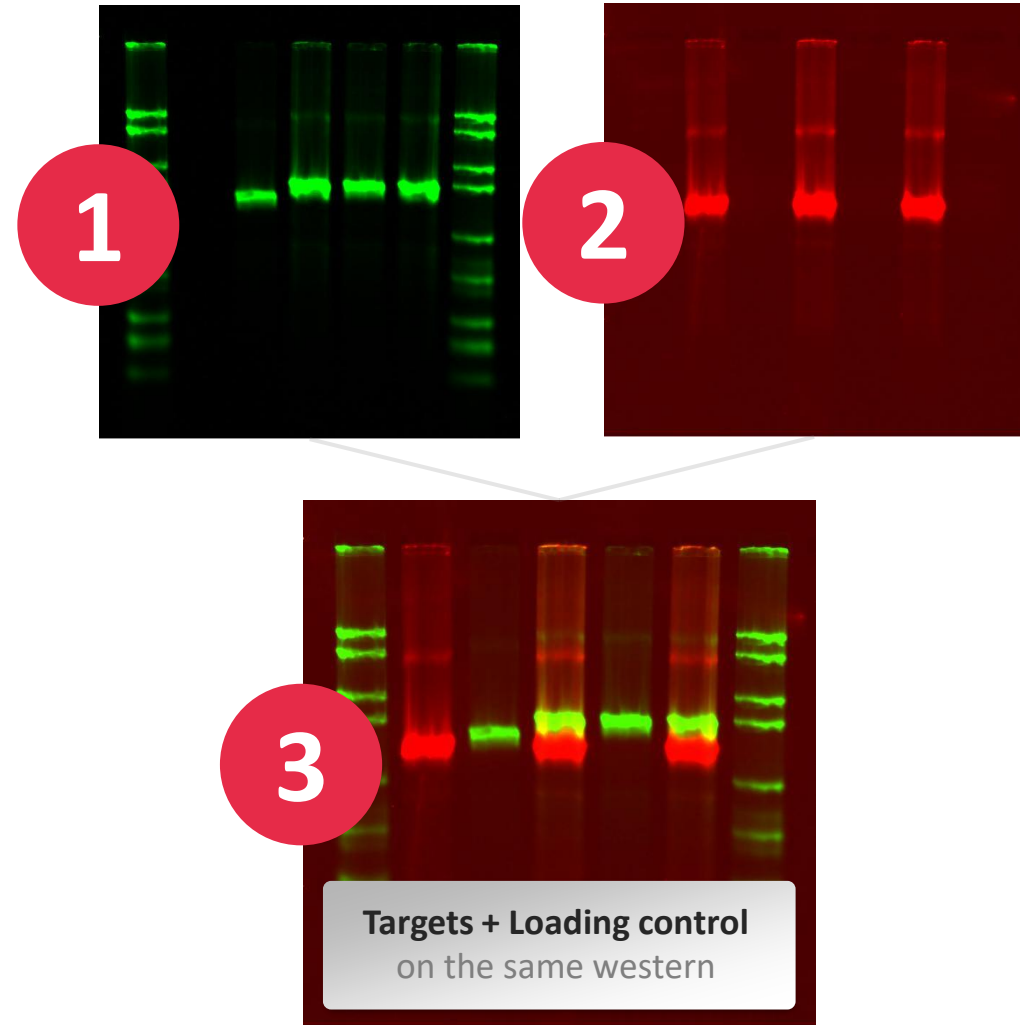
Epi-fluorescence module

Western blotting: Multiplexing Protocol

Images captured individually,
then merged into a final image.

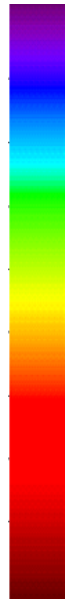
Key points:

- > Sensitivity
- > Excitation spectrum
- > Light intensity
- > Light distribution
- > Emission filter
- > Fluorophore



Epi-fluorescence module

Selecting the appropriate light sources and filters for both excitation and emission can increase the sensitivity of signal detection to an astounding degree making fluorescence labelling one of the most useful technology available.



Wavelength	Filter	Dye
UV 365 nm	F-590	Qdot 565, Qdot 655, Qdot 705, TLC plates
Blue 440 nm	F-535	Alexa 405, CFP, eCFP, Cerulean, Atto 425, DyLight 405
Blue 480 nm	F-535	Alexa 488, Cy2, GFP, eGFP, FITC, Sypro, Bodipy, Atto 465, DyLight 488
Green 520 nm	F-595	Alexa 532, Alexa 555, Cy3, Cy3.5, RFP, Krypton, Atto 550, DyLight 549
Red 650 nm	F-710	Alexa 647, Cy5.5, Cy5, Atto 633, DyLight 633, DyLight 649
NIR 690 nm	F-760	Alexa 680, Alexa 700, Atto 680, IRdye680, DyLight 680
NIR 740 nm	F-820	Alexa 750, Cy7, DyLight 750
IR 780 nm	F-850	Alexa 790, IRdye800, DyLight 800