

Fluorescence Filters for

# FISH

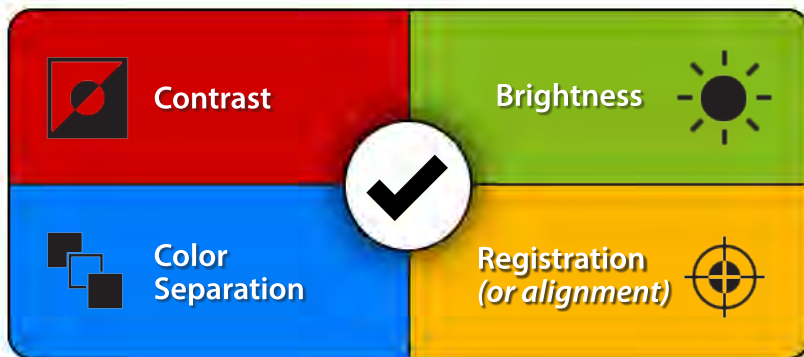
FLUORESCENCE  
IN SITU HYBRIDIZATION

Chroma has manufactured optical filters for FISH applications since our founding as an employee-owned company in 1991. Today's next generation of sputtered ET FISH filter sets from Chroma are optimized to provide the best combination of contrast, brightness and color separation. With dedicated Technical and Application Support and optimized FISH filter sets, plus a lifetime warranty, we make it easy for you.

## Tired of replacing filters? Never replace them again!

Chroma's next generation ET sputtered filters for FISH are durable hard-coated filters, won't "burn out" or delaminate, and are backed by our Lifetime Warranty.

Chroma's ET FISH filter sets are optimized to provide the best combination of:





- ▶ Multi Band filter sets offer a pleasing DAPI counterstain that's less bright, so that other signals are not overwhelmed by too much DAPI signal.
- ▶ More filter choices to minimize bleedthrough. Eliminate bleedthrough of Gold or Aqua into Green channel. Get rid of Gold and Orange bleedthrough into Red channel.
- ▶ More Single Band, Dual Band, Triple Band and Quad Band filter sets offer more hybridization choices.
- ▶ Zero-pixel-shift filter sets for perfect image registration.



### Product Highlights

Chroma's ET FISH filter sets improve the most important image characteristics when viewing FISH samples so that you can:

-  **Score slides more easily**
-  **Reduce uncertainty**
-  **Reduce eye strain**
-  **Save time**
-  **Increase throughput**

CHROMA TECHNOLOGY CORP®

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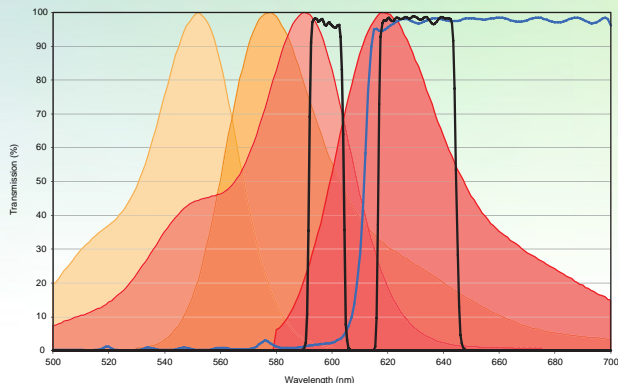
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## Chroma filters give you more options:

Hybridize Red and Orange probes together.

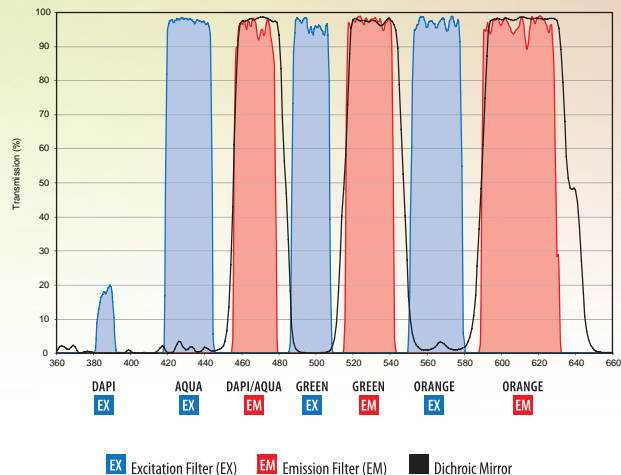
Chroma's 49311 set completely eliminates Orange, allowing for imaging of both in the same cells.



■ ORANGE Excitation and Emission spectra    ■ Excitation and Emission filters in set 49311  
■ RED Excitation and Emission spectra        ■ Dichroic Mirror in set 49311

Quad set allows simultaneous visualization of DAPI/Aqua/ Green/Orange or Red.

Faint counterstain won't overwhelm Aqua signal with Chroma's 69014 set.



■ DAPI EX    ■ AQUA EX    ■ DAPI/AQUA EM    ■ GREEN EX    ■ GREEN EM    ■ ORANGE EX    ■ ORANGE EM  
■ EX Excitation Filter (EX)    ■ EM Emission Filter (EM)    ■ Dichroic Mirror

Optimal filter combinations allow for best performance:

**Problem:**

- Low Contrast
- Poor Color Separation
- Low Brightness / Too Dim
- Images Offset

Poor Filter Choice

**Solution:**

- Maximize Signal : Noise
- Optimize the Passband
- Maximize Emission Signal
- Zero-Pixel-Shift Filters

Appropriate Filter Choice

**Benefit:**

Score slides more reliably and quickly to increase workflow and accuracy

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