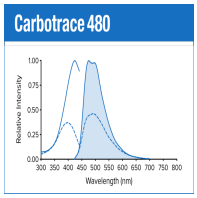
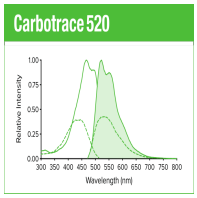
Carbotrace Product Series



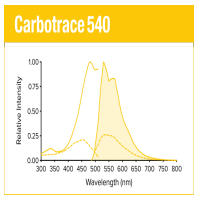
Carbotrace 480 – blue optotracer molecule for spectral imaging of carbohydrates

To excite the fluorescence of **Carbotrace 480**, and thereby identify structures in sample, use any type of florescence microscopy equipment (confocal or epifluorescence) or a spectrophotometer with fluorescence detection capability. Emission for **Carbotrace 480** can be detected at 480 nm using the standard DAPI filter set and excited using the 405 nm laser line. The optical spectrum also allows custom settings within the detection range of 470-550 nm and excitation range of 405-458 nm.



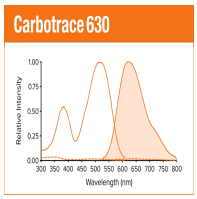
Carbotrace 520 – green optotracer molecule for spectral imaging of carbohydrates

To excite the fluorescence of **Carbotrace 520**, and thereby identify structures in sample, use any type of fluorescence microscopy equipment (confocal or epifluorescence) or a spectrophotometer with fluorescence detection capability. Emission for **Carbotrace 520** can be detected at 520 nm using the standard FITC or GFP filter set and excited using the 458 or 488 nm laser line. The optical spectrum also allows custom settings within the emission detection range of 500-600 nm and excitation range of 405-488 nm.



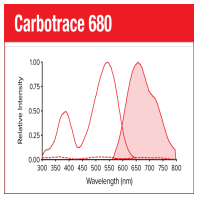
Carbotrace 540 – yellow optotracer molecule for spectral imaging of carbohydrates

To excite the fluorescence of **Carbotrace 540**, and thereby identify structures in sample, use any type of fluorescence microscopy equipment (confocal or epifluorescence) or a spectrophotometer with fluorescence detection capability. Emission for **Carbotrace 540** can be detected at 540 nm using the standard FITC, GFP or YFP filter set and excited using the 440 nm laser line. The optical spectrum allows custom settings within the detection range of 530-600 nm and excitation range of 430-500 nm.



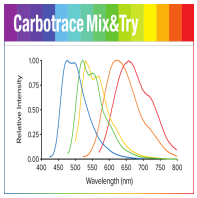
Carbotrace 630 – orange optotracer molecule for spectral imaging of carbohydrates

To excite the fluorescence of **Carbotrace 630**, and thereby identify structures in sample, use any type of fluorescence microscopy equipment (confocal or epifluorescence) or a spectrophotometer with fluorescence detection capability. Emission for **Carbotrace 630** can be detected at 630 nm using the standard PI (Propidium Iodide), Cy3, TxRed, mCherry or Cy3.5 filter set and excitation is achieved using the 488 or 514 nm laser line. The optical spectrum allows custom settings within the detection range of 600-650 nm and an excitation range of 458-514 nm.



Carbotrace 680 – red optotracer molecule for spectral imaging of carbohydrates

To excite the fluorescence of **Carbotrace 680**, and thereby identify carbohydrate structures in a sample, use any type of fluorescence microscopy equipment (confocal or epifluorescence) or a spectrophotometer with fluorescence detection capability. **Carbotrace 680** has an optical spectrum that allows custom settings within the detection range of 600-800 nm and an excitation range of 530-565 nm. Emission can be detected at 680 nm using the standard PI (Propidium Iodide), mCherry or Cy3.5 filter set and exci- tation is achieved using the 561 nm laser line.



Carbotrace Mix&Try – Test Kit for Getting Started

Following optotracer molecules are included in the **Carbotrace Mix&Try** Kit:

- **Carbotrace 480** (blue) is excited between 405-458 nm and emission is detected between 470–550 nm.
- **Carbotrace 520** (green) is excited between 405-488 nm and emission is detected between 500-600 nm.
- **Carbotrace 540** (yellow) is excited between 430-500 nm and emission is detected between 530-600 nm.
- **Carbotrace 630** (orange) is excited between 458-514 nm and emission is detected between 600-650 nm.
- **Carbotrace 680** (red) is excited between 530-565 nm emission is detected between 600-800 nm.

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