

Amytracker

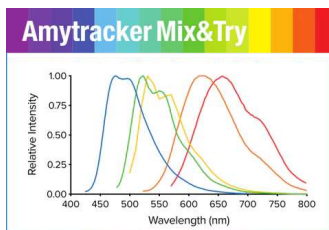
Amytracker are small fluorescent molecules for detection of protein aggregates.

Five Amytracker variants are available with fluorescent emission wavelengths ranging from blue to red in the visible spectrum. All Amytracker variants are designed to bind to the Congo red binding pocket on the amyloid fibril. A minimum of eight in-register parallel- β -strands are required for binding. The Amytracker variants differ in affinity and spectral properties. As Amytracker are structural markers, you can achieve reliable fluorescent labeling of amyloids derived from a variety of amyloidogenic proteins or peptides from different species.

Amytracker are suitable for detecting amyloids in fresh or fixed tissue sections and cells. It is possible to use them for fibrillation assays and for systemic injection in vivo. They are exceptionally photo- and thermostable and allow for easy handling in any application. Amytracker work in a wide range of salt and pH conditions. When the pH is altered during the experiment, pH controls should be included. Amytracker can be used with fluorescence plate readers, fluorescence microscopes and confocal laser scanning microscopes, fluorescence lifetime imaging, fluorescence cytometry, Total internal reflection fluorescence (TIRF) microscopy and Multiphoton microscopy.

Store your Amytracker product in the fridge and use the opened container within 12 months. Amytracker is for research use only and is not for resale.

Products



Amytracker Mix&Try is our recommended option for starting out with using Amytracker. It contains a sample volume (10 μ L) of each Amytracker variant. Testing each variant will allow you to determine which Amytracker is best suited for your experiments and available instruments.

All Amytracker variants label A β plaques and neurofibrillary tangles in tissue sections with AD pathology and α -synuclein aggregates in tissue sections with PD pathology.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

	Ex _{max}	Em _{max}	Recommended filter-sets
Amytracker 480	420 nm	480 nm	DAPI
Amytracker 520	460 nm	520 nm	FITC, GFP
Amytracker 540	480 nm	540 nm	FITC, GFP, YFP
Amytracker 630	520 nm	630 nm	PI, Cy3, TxRed, mCherry, Cy3.5
Amytracker 680	530 nm	680 nm	PI, mCherry, Cy3.5

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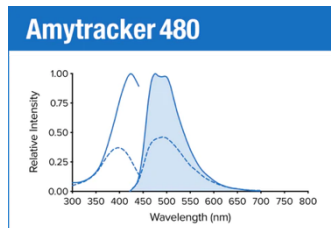
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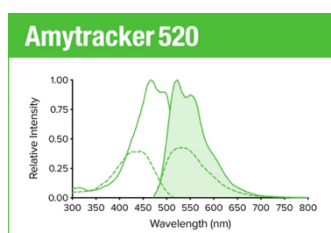
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Amytracker 480 is our blue optotracer for labeling protein aggregates with repetitive arrangement of β -sheets. It labels A β plaques and neurofibrillary tangles in tissue sections with AD pathology and α -synuclein aggregates in tissue sections with PD pathology. Specifically, Amytracker 480 has been used to study amyloid formation during abnormal coagulation.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

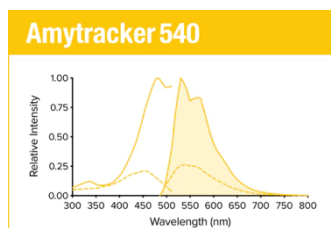
	Ex _{max}	Em _{max}	Recommended filter-sets
Amytracker 480	420 nm	480 nm	DAPI



Amytracker 520 is our green optotracer molecule for labeling protein aggregates with repetitive arrangement of β -sheets. It labels A β plaques and neurofibrillary tangles in tissue sections with AD pathology and α -synuclein aggregates in tissue sections with PD pathology.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

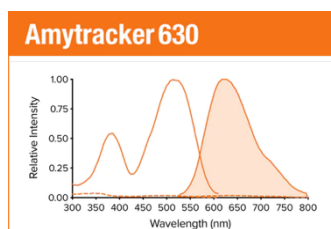
	Ex _{max}	Em _{max}	Recommended filter-sets
Amytracker 520	460 nm	520 nm	FITC, GFP



Amytracker 540 is our yellow fluorescent optotracer molecule for labeling protein aggregates with repetitive arrangement of β -sheets. It labels A β plaques and neurofibrillary tangles in tissue sections with AD pathology and α -synuclein aggregates in tissue sections with PD pathology.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

	Ex _{max}	Em _{max}	Recommended filter-sets
Amytracker 540	480 nm	540 nm	FITC, GFP, YFP



Amytracker 630 is our orange optotracer for labeling protein aggregates with repetitive arrangement of β -sheets. It labels A β plaques and neurofibrillary tangles in tissue sections with AD pathology and α -synuclein aggregates in tissue sections with PD pathology.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

	Ex _{max}	Em _{max}	Recommended filter-sets
Amytracker 630	520 nm	630 nm	PI, Cy3, TxRed, mCherry, Cy3.5

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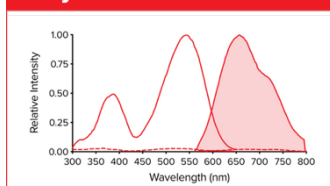
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Amytracker 680



Amytracker 680 is our red optotracer for labeling protein aggregates with repetitive arrangement of β -sheets. It labels A β plaques and neurofibrillary tangles in tissue sections with AD pathology and α -synuclein aggregates in tissue sections with PD pathology. Specifically, Amytracker 680 has been used to study amyloid formation during abnormal coagulation, Lewy body formation in a seeding based neuronal model, accumulation of misfolded proteins in the nucleolus and intracerebral formation of A β plaques using multiphoton microscopy.

Table: Excitation- and emission wavelengths as well as recommended filter sets.

	Ex _{max}	Em _{max}	Recommended filter-sets
Amytracker 680	530 nm	680 nm	PI, mCherry, Cy3.5

Amytracker 680 is available in four different formulations (See volumes and prices in the drop-down list below):

- **Aqueous:** 1 mg/ml solution in ultrapure water. The product should be diluted 1:1000 before use. For use in live-cells, sometimes 1:500 is necessary due to uptake limitations. To prevent evaporation of the aqueous solvent, close the container carefully after use, spin down liquid and use up small volumes quickly.
- **DMSO:** 1 mg/ml solution in DMSO to prevent solvent evaporation. The product should be diluted 1:1000 before use. For use in live-cells, sometimes 1:500 is necessary due to uptake limitations.
- **Solid:** 1 mg solid lyophilised in a sterile injection bottle. We recommend dilution to 4 mg/ml in physiological saline followed by intravenous injection with a total dose of 5 mg/KG.
- **Drop&Shine:** 5 ml ready-to-use product in mounting medium. Ideal for use in tissue sections. Add a some Drop&Shine and mount your slide to detect amyloids within minutes.

Customer Service



Applications

Scan QR-code for direct access/link to the Scan QR-code for direct access/link to protocols on the Ebba Biotech website.



Fluorescence Spectra

Scan QR-code for direct access/link to the excitation and emission spectra on the Ebba Biotech Website.



More information, including volume and concentration options, is available on our website. Contact us for custom options or if you have further questions regarding products or applications.

If you have questions regarding protocols or applications, please contact us:

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