

# Opal 540 Reagent Pack

CATALOG # FP1490001KT

## Components

OP-001002	Opal 540 Reagent, 1 vial
DMSO0100UL	DMSO, 1 x 100 µL
<p>Opal® dyes are provided dry. Reconstitute dye using the provided DMSO prior to usage in assays. Instructions for Opal reconstitution and working solution preparation can be found at <a href="https://www.akoyabio.com">https://www.akoyabio.com</a>.  <b>IMPORTANT: Opal reagents are light sensitive fluorophore-based products. Protect from light during usage and storage.</b></p>	

## Quantity

Up to 50 Slides (depending on automated or manual staining methods).

## Storage and Stability

Opal Reagent	Storage Temp	Storage Notes	Shipping Temp	Stability
DMSO	RT	Store in Dark	4°C	Stable until expiration date shown on product label when stored as directed.
Opal Dry Reagent	-20°C	Store in Dark	4°C	Stable until expiration date shown on product label when stored as directed.
Opal Reconstituted Solution	4°C	Store in Dark	N/A	Use within 90 days and store as directed.
Opal Working Solution	4°C	Prepare Fresh; Do Not Store	N/A	Prepare fresh before each use. Discard unused working solution.

## Excitation and Emission

Dye	Peak Excitation	Peak Emission
Spectral DAPI	368 nm	461 nm
Opal 480	450 nm	500 nm
Opal 520	494 nm	525 nm
<b>Opal 540</b>	<b>523 nm</b>	<b>536 nm</b>
Opal 570	550 nm	570 nm
Opal 620	588 nm	616 nm
Opal 650	627 nm	650 nm
Opal 690	676 nm	694 nm
Opal 780	750 nm	770 nm

## Safety Note

DMSO is classified as hazardous and combustible. It is strongly recommended to wear disposable gloves and safety glasses while working with the items in this kit. Thorough washing of hands after handling is also recommended.

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### Frequently Asked Questions

**If dry Opal reagent was left at room temperature (RT), can the product still be used without impact to performance?**

Storage at room temperature in the dark for less than seven days will not impact performance.

**If reconstituted Opal solution was left at RT, can it still be used without impact to performance?**

No. Reconstituted Opal solution must be stored at 4°C.

**Is Opal working solution stable overnight at room temperature?**

Use Opal working solutions immediately; performance differences have not been observed when staining overnight using an autostainer. Discard any unused working solution after use.

**Noticeable variation in color has been observed between vials of dry Opal reagents. Are these vials defective?**

No. Color variation of dry Opal reagents is normal and is not indicative of performance.

**Noticeable variation in color has been observed between vials of reconstituted Opal reagent in DMSO. Are these vials defective?**

No. Color variation of reconstituted Opal solution is normal and is not indicative of performance.

**After reconstitution the Opal solution looks gel-like. Is this normal?**

Reconstituted Opal dye in DMSO can freeze when stored at 4°C. Retrieve reconstituted Opal dye solution from cold storage, thaw for 10 minutes at RT, gently vortex (do not vortex >10 seconds) and spin down the vial for 10 seconds.

**Is Opal 540 compatible with rapid whole slide imaging on the Phenolmager® Systems?**

Rapid whole slide imaging (scanning in 12 minutes at 20X) can be accomplished in a 6-plex configuration with the following Opal dyes: Opal 480, Opal 520, Opal 570, Opal 620, Opal 690, and Opal 780+TSA-DIG. Opal 540 and Opal 650 are not compatible with rapid whole slide imaging. Opal dyes are optimized for imaging on Phenolmager® HT and Phenolmager® Fusion systems.

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