ab150678
Oil Red O (Lipid Stain)

For the histological visualization of fat cells and neutral fat.

View kit datasheet: www.abcam.com/ab150678
(use www.abcam.cn/ab150678 for China, or www.abcam.co.jp/ab150678 for Japan)

This product is for research use only and is not intended for diagnostic use.
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1. Overview

The Oil Red O (Lipid Stain) (ab150678) is intended for use in the histological visualization of fat cells and neutral fat. This kit may be used only on frozen tissue sections, fresh smears, or touch preps.

**Staining Interpretation:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fat Cells</td>
<td>Red</td>
</tr>
<tr>
<td>Neutral Fat</td>
<td>Red</td>
</tr>
<tr>
<td>Nuclei</td>
<td>Blue</td>
</tr>
</tbody>
</table>

**Control Tissue:**

Any frozen section containing fat.
2. Materials Supplied and Storage

Store kit at room temperature immediately on receipt and check below for storage for individual components. Kit can be stored for 1 year from receipt, if components have not been reconstituted.

Keep away from open flame and refer to the safety datasheet.

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Storage temperature (before prep)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hematoxylin (Modified Mayer’s)</td>
<td>125 mL</td>
<td>RT</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>500 mL</td>
<td>RT</td>
</tr>
<tr>
<td>Oil Red O Solution</td>
<td>125 mL</td>
<td>RT</td>
</tr>
</tbody>
</table>
3. Materials Required, Not Supplied

These materials are not included in the kit, but will be required to successfully perform this assay:

- Aqueous Mounting Medium.
4. General guidelines, precautions, and troubleshooting

Please observe safe laboratory practice and consult the safety datasheet.

For general guidelines, precautions, limitations on the use of our assay kits and general assay troubleshooting tips, particularly for first time users, please consult our guide: www.abcam.com/assaykitguidelines

For typical data produced using the assay, please see the assay kit datasheet on our website.
5. Staining Protocol

- Equilibrate all materials and prepared reagents to room temperature just prior to use and gently agitate.

5.1 Prepare fresh or frozen tissue sections as usual.
5.2 Place slide in Propylene Glycol for 2 minutes.
5.3 Incubate slide in Oil Red O Solution for 6 minutes.
5.4 Prepare a mixture of 85% Propylene Glycol in distilled water and differentiate the tissue section in this mixture for 1 minute.
5.5 Rinse slide in 2 changes of distilled water.
5.6 Incubate slide in Hematoxylin for 1-2 minutes.
5.7 Rinse slide thoroughly in tap water.
5.8 Rinse slide in 2 changes of distilled water.
5.9 Coverslip using an aqueous mounting medium.
6. FAQs / Troubleshooting

General troubleshooting points are found at www.abcam.com/assaykitguidelines.
7. Notes