Product name
Luxol Fast Blue Stain Kit (Myelin Stain)

Product overview
The Luxol Fast Blue Stain (Myelin Stain) is designed for staining myelin/myelinated axons and Nissl bodies on formalin fixed, paraffin-embedded tissue as well as frozen tissue. This product is used for identifying the basic neuronal structure in brain or spinal cord sections.

Storage: Please refer to protocol booklet.

Notes
Staining Interpretation
- Myelinated Fibers: Blue
- Nissl Substance: Violet
- Nerve Cells: Violet

Control Tissue: Cerebral Cortex, Spinal Cord.

Tested applications
Suitable for: IHC-Fr, IHC-P

Properties

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol reagent (70%)</td>
<td>1 x 500ml</td>
<td>1 x 500ml</td>
</tr>
<tr>
<td>Cresyl Echt Violet Solution</td>
<td>1 x 125ml</td>
<td>1 x 125ml</td>
</tr>
<tr>
<td>Lithium carbonate Solution</td>
<td>1 x 500ml</td>
<td>1 x 500ml</td>
</tr>
<tr>
<td>Luxol Fast Blue Solution</td>
<td>1 x 125ml</td>
<td>1 x 125ml</td>
</tr>
</tbody>
</table>

Relevance
Myelin is produced by oligodendrocytes in the CNS and Schwann cells in the peripheral nervous system (PNS). Defining the differences between CNS and PNS myelin may provide insights into the process of myelination and the pathogenesis of certain idiopathic diseases involving myelin such as multiple sclerosis, certain leukodystrophies, and other myelinopathies. Myelin is composed of about 80% lipid fat and about 20% protein. Some of the proteins that make up myelin are Myelin basic protein (MBP), Myelin oligodendrocyte glycoprotein (MOG) and Proteolipid protein (PLP). Myelin is made up primarily of a glycolipid called galactocerebroside. The intertwining of the hydrocarbon chains of sphingomyelin serve to strengthen the myelin sheath.

Cellular localization
Integral membrane protein.
Applications

Our Abpromise guarantee covers the use of ab150675 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Images

ab150675 Luxol Fast Blue Stain Kit (Myelin Stain) staining formalin-fixed-paraffin embedded mouse brain.

ab150675 (Luxol Fast Blue stain) staining myelin (blue) in formalin fixed paraffin embedded normal human cerebellum, counterstained with cresyl echt violet (purple).

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.
Staining using ab150675 - Luxol Fast Blue Stain Kit.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors