Product name: Iron Stain Kit (Prussian Blue Stain) ab150674

Product overview: Iron Stain Kit (Prussian Blue stain) ab150674 is intended for use in the detection of ferric iron in tissues, blood smears, or bone marrow smears. Ferric iron is normally found in small amounts in bone marrow and the spleen. Abnormally large deposits may be seen in hemochromatosis and hemosiderosis.

This iron stain kit is based on the Prussian Blue stain reaction in which ionic iron reacts with acid ferrocyanide producing a blue color.

Iron stain / Prussian Blue stain protocol summary:
- deparaffinize sections if necessary and rehydrate
- incubate for 3 min in iron stain (mix of potassium ferrocyanide and hydrochloric acid)
- rinse in water
- counterstain in nuclear fast red
- rinse in water
- dehydrate in alcohol and mount

Other products for staining tissue sections

Find more kits and reagents in the special stains guide, or products for antigen retrieval, blocking, signal amplification, visualization, counterstaining, and mounting in the IHC kits and reagents guide.

Notes

Staining Interpretation
Iron    Bright Blue
Nuclei  Red
Background  Pink

Control Tissue: Spleen, Bone Marrow

Properties

Storage instructions: Store at room temperature. Please refer to protocols.
Iron is essential to nearly all known organisms. It is generally stored in the centre of metalloproteins, in the heme complex, and in oxygen carrier proteins. Inorganic iron also contributes to redox reactions in the iron-sulfur clusters of many enzymes, such as nitrogenase and hydrogenase.

**Components**

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid Solution (2%)</td>
<td>1 x 500ml</td>
</tr>
<tr>
<td>Nuclear Fast Red Solution</td>
<td>1 x 125ml</td>
</tr>
<tr>
<td>Potassium ferrocyanide solution</td>
<td>1 x 500ml</td>
</tr>
</tbody>
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**Relevance**

ab150674 Iron Stain Kit staining formalin-fixed-paraffin embedded human liver.

ab150674 (Iron stain) staining iron deposits (blue) in formalin fixed paraffin embedded normal human liver, counterstained with nuclear fast red (pink).

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.*
Staining of Human Kidney using ab150674 - Iron Stain Kit.

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

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