Product Datasheet

Ulex Europaeus Lectin 1 Antibody
NB110-13922

Unit Size: 0.25 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Publications: 2

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Updated 8/8/2023 v.20.1

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# NB110-13922

**Ulex Europaeus Lectin 1 Antibody**

## Product Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.25 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>This product is unpurified. The exact concentration of antibody is not quantifiable.</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>15mM Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Unpurified</td>
</tr>
<tr>
<td>Buffer</td>
<td>Whole antisera, delipidized</td>
</tr>
</tbody>
</table>

## Product Description

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Species</td>
<td>Plant</td>
</tr>
<tr>
<td>Marker</td>
<td>Endothelial Cells</td>
</tr>
<tr>
<td>Specificity/Sensitivity</td>
<td>The antibody may be used for studies of the vascular structures. It reacts specifically with UEA-I bound to human endothelial cells of normal and neoplastic blood and lymphatic vessels. Its uniform reaction with vessels enables differentiation between vessels and artificial slits in the tissue.</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Anti-Ulex Europaeus-I (UEA-I) Lectin is developed in rabbit using purified Ulex Europaeus-I lectin from gorse seeds as the immunogen.</td>
</tr>
</tbody>
</table>

## Product Application Details

<table>
<thead>
<tr>
<th>Application Details</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin</td>
</tr>
<tr>
<td>Recommended Dilutions</td>
<td>Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:500, Immunohistochemistry-Paraffin 1:500, Immunohistochemistry-Frozen 1:500</td>
</tr>
<tr>
<td>Application Notes</td>
<td>Lectin isolated from Ulex europaeus I (NBP2-42700) is specific for alpha-L-fucose-containing glycoconjugates which (in combination with NB110-13922) makes it a specific marker for vascular endothelial cells and tumors derived from them. For immunoassays on animal tissues, Ulex Europaeus Lectin 1 Protein (NBP2-42700) would be a required product alongwith NB110-13922. Technically, NBP2-42700 will bind the carbohydrate moiety on vascular endothelial cells as first primary reagent and then NB110-13922 will bind to Ulex Europaeus-1 lectin (NBP2-42700) in the primary antibody incubation step (See product specific IHC-P Protocol).</td>
</tr>
</tbody>
</table>
Immunohistochemistry: Ulex Europaeus Lectin 1 Antibody [NB110-13922] - Formalin fixed, paraffin-embedded Human tonsil tissue sections were stained with 1:1000 Anti-Lectin, Ulex europaeus-I antibody produced in Rabbit followed by 1:30 Anti-Rabbit IgG (whole molecule)-FITC antibody produced in Goat.

Publications

Ding L, Chakrabarti J, Sheriff S et al. Toll Like Receptor 9 Pathway Mediates Schlafen+-MDSC Polarization During Helicobacter-Induced Gastric Metaplasias Gastroenterology 2022-04-26 [PMID: 35487288] (IF/IHC, Mouse)

GHAZALI M, AB-RAHIM S, MUHAMAD M EXPRESSION OF THE MICROFOLD CELLS IN THREE-DIMENSIONAL COCULTURE SYSTEM FOR IN VITRO CULTIVATION OF HUMAN NOROVIRUS Int J App Pharm 2019-09-21
Procedures

Immunohistochemistry protocol for Ulex Europaeus Lectin 1 Antibody (NB110-13922)

Immunohistochemistry protocol for Ulex Europaeus Lectin 1 Antibody (NB110-13922):
https://www.novusbio.com/products/ulex-europaeus-lectin-1-antibody_nb110-13922

IHC Staining Protocol

Materials:
1. Paraffin sections (4-6um) of animal or human tissue (material fixed with 10% phosphate buffered formalin)
2. Phosphate buffered saline (PBS) pH 7.5-7.6 (10-20 mM) containing 1% BSA
3. 0.1% Pronase in PBS
4. 0.1% Trypsin in PBS
5. 10 ug/ml Ulex Europaeus-1 lectin (NBP2-42700)
6. Anti Ulex Europaeus-1 lectin antibody (NB110-13922)
7. Secondary antiserum: FITC anti-rabbit IgG (H+L)
8. Mounting Medium

Method:
1. After deparaffinization treat with 0.1% Pronase in PBS for 10 minutes at 37C. Alternatively, digest with 0.1% Trypsin in PBS for 25 minutes at 37C. Gently rinse in PBS for 5 minutes (2X).
2. Apply 2 drops of 10 ug/ml solution of UEA-1 (NBP2-42700)
3. Incubate for 30 minutes at 37C. Gently rinse in PBS for 5 minutes (X2)
4. Apply 2 drops Anti Ulex Europaeus-1 lectin antibody (NB110-13922) diluted 1:500 in PBS containing 1% BSA
5. Incubate for 1 hr. at 37C
6. Gently rinse in PBS for 5 minutes
7. Drain, carefully blot away excess moisture around the sections.
8. Quickly apply freshly prepared diluted FITC secondary antiserum (at previously determined appropriate dilution) in PBS containing 1% BSA.
9. Incubate for 30 minutes at 37C
10. Gently rinse in PBS for 5 minutes (x2). Blot away excess moisture from around the sections.
11. Add mounting medium and coverslip.
12. Read under the UV fluorescent microscope. Mounted preparations can be stored in a refrigerator.

Notes:
1. Do not allow tissue sections to dry out at any time during the aforementioned procedure.
2. In case of excessive background staining remove aggregates from antisera by centrifuging for 15 minutes immediately prior to use.
Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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