Product Datasheet

CD3 Antibody (SP7)
NB600-1441

Unit Size: 0.5 ml

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

Reviews: 3  Publications: 5

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Updated 10/28/2018 v.20.1

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# NB600-1441
CD3 Antibody (SP7)

## Product Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.5 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 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone</td>
<td>SP7</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.1% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Tissue culture supernatant</td>
</tr>
<tr>
<td>Buffer</td>
<td>Tissue culture supernatant</td>
</tr>
</tbody>
</table>

## Product Description

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Gene ID</td>
<td>916</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>CD3E</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Mouse, Canine</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Canine reactivity per customer review.</td>
</tr>
<tr>
<td>Specificity/Sensitivity</td>
<td>The CD3 antigen is present on early thymocytes and mature T cells and is generally regarded as a pan-T cell marker. This antibody will help detect CD3 expression in normal and neoplastic tissues. This antibody reacts with the intracytoplasmic portion of the CD3 antigen expressed by T cells. It stains human T cells in both the cortex and medulla of the thymus and in peripheral lymphoid tissues. This antibody is suitable for staining normal and neoplastic T cells in formalin-fixed, paraffin-embedded tissues.</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide: KAKAKPVTRGAGA, corresponding to amino acids 156-168 of Human CD3 epsilon chain.</td>
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</table>

## Product Application Details

<table>
<thead>
<tr>
<th>Feature</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 1:10-1:500, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500</td>
</tr>
<tr>
<td>Application Notes</td>
<td>IHC-P: Staining of formalin-fixed tissues is required by boiling tissue sections in 10 mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 29037255).</td>
</tr>
</tbody>
</table>
### Images

**Immunohistochemistry-Paraffin: CD3 Antibody (SP7) [NB600-1441]** - Mouse lung tissue stained against C3aR normal conditions (left) and knockdown conditions (right). This image was submitted via customer review.

![Image](https://example.com)

**Immunohistochemistry-Paraffin: CD3 Antibody (SP7) [NB600-1441]** - Formalin fixed paraffin embedded human tonsil stained with CD3 antibody.

![Image](https://example.com)

**Immunohistochemistry-Frozen: CD3 Antibody (SP7) [NB600-1441]** - T-cells and microglia in mouse spinal cord with acute EAE. Mouse was perfused with 4% paraformaldehyde. Spinal cord was post-fixed overnight, followed by cryoprotection with 30% sucrose for 24h. Spinal cord sections were treated with antigen-retrieval buffer (pH 6.0) at 60°C for 10 min, then cooled down to room temperature (this step should not be omitted). Anti-CD3 antibody was diluted at 1:200. Incubation: room temperature overnight. This image was submitted via customer review.

![Image](https://example.com)

### Publications

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
<th>Journal</th>
<th>Date</th>
<th>PMID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gushchina S, Pryce G, Yip PK et al.</td>
<td>Increased expression of colony-stimulating factor-1 in mouse spinal cord with experimental autoimmune encephalomyelitis correlates with microglial activation and neuronal loss</td>
<td>Glia</td>
<td>Aug 25 2018 12:00AM</td>
<td>[PMID: 30144320] (IHC-Fr, Mouse)</td>
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</tbody>
</table>
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.

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