Product Datasheet

Cytokeratin 19 Antibody (A53-B/A2.26)
NBP2-15186-0.1mg

Unit Size: 0.1 mg
Store at 4C.

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# Cytokeratin 19 Antibody (A53-B/A2.26)

**Product Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Concentration</td>
<td>0.2 mg/ml</td>
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<tr>
<td>Storage</td>
<td>Store at 4C.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
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<tr>
<td>Clone</td>
<td>A53-B/A2.26</td>
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<tr>
<td>Preservative</td>
<td>0.05% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG2a Kappa</td>
</tr>
<tr>
<td>Purity</td>
<td>Protein G purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS with 0.05% BSA.</td>
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</table>

**Product Description**

- **Host**: Mouse
- **Gene ID**: 3880
- **Gene Symbol**: KRT19
- **Species**: Human

**Reactivity Notes**: The A53-B antibody strongly binds to human Keratin-19 and weakly binds to mouse, rat and guinea pig Keratin-19.

**Marker**: Epithelial Cell Marker

**Specificity/Sensitivity**: This MAb reacts with the rod domain of human cytokeratin-19 (CK19), a polypeptide of 40kDa. Its epitope maps between amino acid 312-335. CK19 is expressed in sweat gland, mammary gland ductal and secretory cells, bile ducts, gastrointestinal tract, bladder urothelium, oral epithelia, esophagus, and ectocervical epithelium. Anti-CK19 reacts with a wide variety of epithelial malignancies including adenocarcinomas of the colon, stomach, pancreas, biliary tract, liver, and breast. Perhaps the most useful application is the identification of thyroid carcinoma of the papillary type, although 50%-60% of follicular carcinomas are also labeled. Anti-CK19 is a useful marker for detection of tumor cells in lymph nodes, peripheral blood, bone marrow and breast cancer.

**Immunogen**: Human breast cancer MCF-7 cells were used as the immunogen for the Keratin-19 antibody.

**Product Application Details**

**Applications**: Western Blot, Simple Western, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation

**Recommended Dilutions**: Western Blot 0.5-1ug/ml, Simple Western 10 ug/ml, Flow Cytometry 0.5-1ug/million cells, ELISA 1-5ug/ml for coating, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1-2ug/ml, Immunoprecipitation 1-2ug/500ug protein lysate, Immunohistochemistry-Paraffin 0.5-1ug/ml, Immunohistochemistry-Frozen 0.5-1ug/ml

**Application Notes**: Immunohistochemical staining of formalin/paraffin tissues is enhanced by unmasking of the target epitope by boiling the tissue sections in 10mM citrate buffer, pH 6.0, for 10 min followed by cooling at room temp for 20 min. Immunohistochemistry-Frozen and Immunoprecipitation applications cited in literature. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size.
Immunocytochemistry/Immunofluorescence: Cytokeratin 19 Antibody (A53-B/A2.26) [NBP2-15186] - Immunofluorescence Analysis of MCF-7 cells labeling Cytokeratin 19 with Cytokeratin 19 Antibody (A53-B/A2.26) followed by Goat anti-Mouse IgG-CF488 (Cyan). The nuclear counterstain is Red Dot (Red).

Western Blot: Cytokeratin 19 Antibody (A53-B/A2.26) [NBP2-15186] - analysis of Keratin-19 in 1) HepG2 and 2) MCF7 lysate using of Keratin-19 antibody at 1 ug/ml. goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.

Immunohistochemistry-Paraffin: Cytokeratin 19 Antibody (A53-B/A2.26) [NBP2-15186] - Formalin-paraffin colon carcinoma stained with Cytokeratin 19 Ab (A53-B/A2.26).

Immunocytochemistry/Immunofluorescence: Cytokeratin 19 Antibody (A53-B/A2.26) [NBP2-15186] - HepG2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.5% Triton-X100. The cells were incubated with anti-Cytokeratin 19 (A53-B/A2.26) conjugated to Alexa Fluor 488 [NBP2-33134AF488] at 10ug/ml for 1 hour at room temperature. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the Alexa Fluor 488 version of this antibody.
Simple Western: Cytokeratin 19 Antibody (A53-B/A2.26) [NBP2-15186] - Simple Western lane view shows a specific band for Cytokeratin 19 in 0.2 mg/ml of HeLa lysate(s). This experiment was performed under reducing conditions using the 12-230 kDa separation system.

Simple Western: Cytokeratin 19 Antibody (A53-B/A2.26) [NBP2-15186] - Electropherogram image of the corresponding Simple Western lane. Cytokeratin 19 antibody was used at 10 ug/ml dilution of HeLa lysates(s) respectively.
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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