Product Datasheet

Caspase-14 Antibody
NB100-56126

Unit Size: 0.05 ml

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

Publications: 5

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Updated 8/27/2017 v.20.1

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# Product Information

<table>
<thead>
<tr>
<th><strong>Unit Size</strong></th>
<th>0.05 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Concentration</strong></td>
<td>This product is unpurified. The exact concentration of antibody is not quantifiable.</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td><strong>Clonality</strong></td>
<td>Polyclonal</td>
</tr>
<tr>
<td><strong>Preservative</strong></td>
<td>0.02% Sodium Azide</td>
</tr>
<tr>
<td><strong>Purity</strong></td>
<td>Unpurified</td>
</tr>
<tr>
<td><strong>Buffer</strong></td>
<td>Neat whole antiserum</td>
</tr>
</tbody>
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## Product Description

<table>
<thead>
<tr>
<th><strong>Host</strong></th>
<th>Rabbit</th>
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<tbody>
<tr>
<td><strong>Gene ID</strong></td>
<td>23581</td>
</tr>
<tr>
<td><strong>Gene Symbol</strong></td>
<td>CASP14</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td>Human, Mouse, Rat, Canine</td>
</tr>
<tr>
<td><strong>Reactivity Notes</strong></td>
<td>Cross reacts with Dog, Gerbil, Human, Mouse and Rat.</td>
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<tr>
<td><strong>Specificity/Sensitivity</strong></td>
<td>This polyclonal antibody recognizes the proform of caspase-14 (~28-32 kDa), and the large (~14-21 kDa) and small (~10-11 kDa) of active/cleaved caspase-14.</td>
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<tr>
<td><strong>Immunogen</strong></td>
<td>Recombinant full-length human Caspase-14 was used as immunogen.</td>
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## Product Application Details

<table>
<thead>
<tr>
<th><strong>Applications</strong></th>
<th>Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended Dilutions</strong></td>
<td>Western Blot 1:1000-1:2000, Immunohistochemistry, Immunoprecipitation 1:50-1:200, Immunohistochemistry-Paraffin 1:1000-1:5000</td>
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</tbody>
</table>
Western Blot: Caspase-14 Antibody [NB100-56126] - Analysis of Caspase-14. Tissue lysates (50 ug/lane) and recombinant human Caspase-14 were (Hu C14, 15 ng) were western blotted with Caspase-14 antibody at 1:2000. The antibody detected both the proform of caspase-14, and the large and small subunits of active/cleaved caspase-14.

Immunohistochemistry: Caspase-14 Antibody [NB100-56126] - Immunohistochemistry-Paraffin: Caspase-14 Antibody [NB100-56126] - Tissue sections of mouse skin at E17 stained using this antibody at 1:500.

Immunohistochemistry-Paraffin: Caspase-14 Antibody [NB100-56126] - Formalin-fixed paraffin-embedded sections from a human ovarian cancer tissue microarray stained for Caspase-14 expression using this antibody at 1:2000. Low (A) and high (B) stage ovarian tumor tissue cores. High magnification from areas of the tissue cores (A1 and B1). Decreased Caspase-14 expression was seen in the high grade, compared to the low grade tumor. Hematoxylin-eosin counterstain.

Immunohistochemistry-Paraffin: Caspase-14 Antibody [NB100-56126] - Tissue sections of human cervix stained using this antibody at 1:2000. A. Normal cervix (squamous epithelium). B. CIN1 (low-grade squamous intraepithelial lesion, mild dysplasia). C. CIN2 (high-grade squamous intraepithelial lesion, moderate dysplasia. D. CIN3 (high-grade squamous intraepithelial lesion; severe dysplasia-carcinoma in situ. In normal cervi, caspase-14 staining was found most in the midzone layer, but was absent from the basal/parabasal cell layer where mitotically active cells are known to reside. This suggests induction of caspase-14 expression with differentiation. Caspase-14 expression declined progressively during malignant transformation as the histologic severity of the cervical atypia advanced from CIN1 to CIN3. Hematoxylin-eosin counterstain.
### Publications

Chamcheu JC, Adhami VM, Esnault S et al. Dual inhibition of PI3K/Akt and mTOR by the Dietary Antioxidant Delphinidin Ameliorates Psoriatic Features In-vitro and in an Imiquimod-induced Psoriasis-like Disease in Mice Antioxid. Redox Signal. 2016 Jul 08 [PMID: 27393705] (IHC, Human)


Details:
WB: Fig 1C (recombinant human and mouse caspase-14 protein) and Fig 1D (various normal human tissues and tumor cell lines); IHC (paraffin), Fig 2 (continuum from human uterine normal to malignant cervix), Fig 3A (human gastric cancer), Fig 4 (human ovaria


Details:
Antibodies cited: 1. Caspase-9 (Active/Cleaved), IMG-5705: WB: Fig 1A (recombinant human caspase-9), Fig 4A (recombinant human caspase-9, rat brain), Fig 4B-F (isolated mitochondria from rat liver or heart). Fig 5 (PC12 cells) IHC (P): Fig 2d-k (rat kidney
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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Products Related to NB100-56126

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>NB820-59177</td>
<td>Human Brain Whole Tissue Lysate (Adult Whole Normal)</td>
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<tr>
<td>HAF008</td>
<td>Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]</td>
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<tr>
<td>NB7160</td>
<td>Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]</td>
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<tr>
<td>H00023581-Q01-10ug</td>
<td>Recombinant Human Caspase-14 Protein</td>
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