Caspase-3 (Cleaved)
Concentrated and Prediluted Polyclonal Antibody
901-229-080217

<table>
<thead>
<tr>
<th>Catalog Number:</th>
<th>CP 229 A, B, C</th>
<th>PP 229 AA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description:</td>
<td>0.1, 0.5, 1.0 ml, concentrated</td>
<td>6.0 ml, prediluted</td>
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<tr>
<td>Dilution:</td>
<td>1:100-1:200</td>
<td>Ready-to-use</td>
</tr>
<tr>
<td>Diluent:</td>
<td>Da Vinci Green</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Intended Use:**
For In Vitro Diagnostic Use

Caspase-3 (Cleaved) is a rabbit polyclonal antibody that is intended for laboratory use in the qualitative identification of caspase-3 protein by immunohistochemistry (IHC) in formalin-fixed paraffin-embedded (FFPE) human tissues. The clinical interpretation of any staining or its absence should be complemented by morphological studies using proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

**Summary and Explanation:**
Apoptosis has gained central importance in the study of many biological processes, including neoplasia, neurodegenerative diseases, and development. Caspases (cysteine-aspartic acid proteases) play a key role in the execution of apoptosis. Activation of caspase-3 requires proteolytic processing of its inactive zymogen into active p17 and p12 subunits. Caspase-3 (Cleaved) detects the large fragment (17/19 kDa) of activated caspase-3 resulting from cleavage adjacent to (Asp175). This antibody does not cross-react with other cleaved caspases.

**Troubleshooting:**
Follow the antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.

**Protocol Recommendations Cont'd:**

**Pretreatment Solution (recommended):**
Reveal

**Pretreatment Protocol:**

**Heat Retrieval Method:**
Retrieve sections under pressure using Biocare's Decloaking Chamber, followed by a wash in distilled water; alternatively, steam tissue sections for 45-60 minutes. Allow solution to cool for 10 minutes then wash in distilled water.

**Protein Block (Optional):**
Incubate for 5-10 minutes at RT with Biocare's Background Punisher.

**Primary Antibody:**
Incubate for 30 minutes at RT

**Polymer:**
Incubate for 30 minutes at RT with a secondary-conjugated polymer.

**Chromogen:**
Incubate for 5 minutes at RT with Biocare's DAB - OR - Incubate for 5-7 minutes at RT with Biocare's Warp Red.

**Counterstain:**
Counterstain with hematoxylin. Rinse with deionized water. Apply Tacha's Bluing Solution for 1 minute. Rinse with deionized water.

**Technical Note:**
This antibody has been standardized with Biocare's MACH 4 detection system. Use TBS buffer for washing steps.

**Limitations:**
The optimum antibody dilution and protocols for a specific application can vary. These include, but are not limited to: fixation, heat-retrieval method, incubation times, tissue section thickness and detection kit used. Due to the superior sensitivity of these unique reagents, the recommended incubation times and titters listed are not applicable to other detection systems, as results may vary. The data sheet recommendations and protocols are based on exclusive use of Biocare products. Ultimately, it is the responsibility of the investigator to determine optimal conditions. The clinical interpretation of any positive or negative staining should be evaluated within the context of clinical presentation, morphology and other histopathological criteria by a qualified pathologist. The clinical interpretation of any positive or negative staining should be complemented by morphological studies using proper positive and negative internal and external controls as well as other diagnostic tests.

**Quality Control:**

**Troubleshooting:**
Follow the antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.

**References:**