**Caspase-3 (Cleaved)**

Concentrated and Prediluted Polyclonal Antibody

901-229-091217

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<th>Catalog Number:</th>
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<th>Diluent:</th>
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<tr>
<td>CP 229 A, B, C</td>
<td>0.1, 0.5, 1.0 ml, concentrated</td>
<td>Da Vinci Green</td>
<td>1:100</td>
<td>Chromogen: Incubate for 5 minutes at RT with Biocare's DAB - OR - Incubate for 5-7 minutes at RT with Biocare's Warp Red.</td>
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<tr>
<td>PP 229 AA</td>
<td>6.0 ml, prediluted</td>
<td>N/A</td>
<td>Ready-to-use</td>
<td>Counterstain: Counterstain with hematoxylin. Rinse with deionized water. Apply Tacha's Bluing Solution for 1 minute. Rinse with deionized water.</td>
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</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 (cysteiny1-aspatic 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.

**Principle of Procedure:**
Antigen detection in tissues and cells is a multi-step immunohistochemical process. The initial step binds the primary antibody to its specific epitope. After labeling the antigen with a primary antibody, an enzyme labeled polymer is added to bind to the primary antibody. The detection of the bound antibody is evidenced by a colorimetric reaction.

**Source:**
Rabbit polyclonal

**Species Reactivity:**
Human and mouse

**Clone:**
N/A

**Isotype:**
N/A

**Total Protein Concentration:**
~10 mg/ml. Call for lot specific Ig concentration.

**Epitope/Antigen:**
Caspase-3

**Cellular Localization:**
Cytoplasmic / nuclear

**Positive Tissue Control:**
Tonsil or colon cancer

**Known Applications:**
Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

**Supplied As:**
Buffer with protein carrier and preservative

**Storage and Stability:**
Store at 2°C to 8°C. Do not use after expiration date printed on vial. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

**Protocol Recommendations:**

** Peroxide Block:** Block for 5 minutes with Biocare's Peroxidazed 1.

** Pretreatment:** Perform heat retrieval using Biocare's Reveal Decloaker. Refer to the Reveal Decloaker product data sheet for specific instructions.

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

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

** Probe:**
N/A

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

**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.
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References: