Synaptophysin

Concentrated and Prediluted Monoclonal Antibody 902-371-103122



Available Product Formats				
Format	Catalog Number	Description	Dilution	Diluent
Concentrate	ACR 371 AK, CK	0.1, 1.0 mL	1:100	Renoir Red
Predilute	APR 371 AA	6.0 mL	Ready-to-use	N/A
Q Series-For Leica BOND-III	ALR 371 G7	7.0 mL	Ready-to-use	N/A

Intended Use:

For Research Use Only. Not for use in diagnostic procedures.

Summary and Explanation:

This monoclonal antibody [clone 27G12] is a reliable marker for neuroendocrine and neuronal neoplasms, as well as their normal counterparts (1,2). Studies have shown synaptophysin has a higher degree of specificity than NSE, but is often used in conjunction with CD56, NSE and chromogranin. This clone aids in providing sharper staining when compared to other rabbit synaptophysin antibodies.

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, a one-step or two-step detection procedure can be applied. A one-step procedure will feature an enzyme labeled polymer that binds the primary antibody. A two-step procedure will feature a linker antibody added to bind to the primary antibody. An enzyme-labeled polymer is then added to bind the linker antibody. These detections of the bound antibodies are evidenced by a colorimetric reaction.

Source: Mouse monoclonal

Species Reactivity: Human; others not tested

Clone: 27G12 Isotype: IgG1

Protein Concentration: Call for lot specific Ig concentration.

Epitope/Antigen: Synaptophysin Cellular Localization: Cytoplasmic

Positive Tissue Control: Pancreas, neuroendocrine tumor

Known Applications:

Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Supplied As: Buffer with protein carrier and preservative

Renoir Red Diluent (BRR904)

Storage and Stability:

Store at 2°C to 8°C. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date. Diluted reagents should be used promptly; any remaining reagent should be stored at 2°C to 8°C.

Staining Protocol Recommendations (intelliPATH FLX® and manual

Peroxide Block: Block for 5 minutes with Peroxidazed 1.

Pretreatment: Perform heat retrieval using Borg or Reveal Decloaker. Refer to the Borg or Reveal Decloaker product data sheet for specific instructions. Protein Block: (Optional): Incubate for 5-10 minutes at RT with Background Punisher.

Primary Antibody: Incubate for 45 minutes at RT.

Probe: Incubate for 10 minutes at RT with a secondary probe. **Polymer:** Incubate for 20 minutes at RT with a tertiary polymer.

Chromogen: Incubate for 5 minutes at RT with Biocare's DAB -OR- Incubate

for 5-7 minutes at RT with 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, for intelliPATH FLX and manual use, has been standardized with MACH 4 detection system. Use TBS for washing steps.

Staining Protocol Recommendations (Q Series - For Leica BOND-

ALR371 is intended for use with the Leica BOND-III. Refer to the User Manual for specific instructions for use. Recommended protocol parameters are as

follows: Protocol Name: IHC Protocol F **Detection:** BOND Polymer Refine

HIER: 40 min with ER2 Peroxide Block: 5 min

Marker (Primary Antibody): 15 min

Post Primary: 8 min Polymer: 8 min Mixed DAB Refine: 10 min Hematoxylin: 5 min

Limitations:

This product is provided for Research Use Only (RUO) and is not for use in diagnostic procedures. Suitability for specific applications may vary and it is the responsibility of the end user to determine the appropriate application

Precautions:

- 1. This antibody contains less than 0.1% sodium azide. Concentrations less than 0.1% are not reportable hazardous materials according to U.S. 29 CFR 1910.1200, OSHA Hazard communication and EC Directive 91/155/EC. Sodium azide (NaN₃) used as a preservative is toxic if ingested. Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal, flush with large volumes of water to prevent azide build-up in plumbing. (Center for Disease Control, 1976, National Institute of Occupational Safety and Health, 1976) (3)
- 2. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come into contact with sensitive areas, wash with copious amounts of water. (4)
- 3. Microbial contamination of reagents may result in an increase in nonspecific staining.
- 4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
- 5. Do not use reagent after the expiration date printed on the vial.
- 6. The SDS is available upon request and is located at http://biocare.net.

Technical Support:

Contact Biocare's Technical Support at 1-800-542-2002 for questions regarding this product.

References:

- 1. Chejfec G, et al. Synaptophysin. A new marker for pancreatic neuroendocrine tumors. Am J Surg Pathol. 1987 Apr;11(4):241-7.
- 2. Wiedenmann B, et al. Synaptophysin: a marker protein for neuroendocrine cells and neoplasms. Proc Natl Acad Sci U S A. 1986 May;83(10):3500-4.
- 3. Center for Disease Control Manual. Guide: Safety Management, NO. CDC-22, Atlanta, GA. April 30, 1976 "Decontamination of Laboratory Sink Drains to Remove Azide Salts."
- 4. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition CLSI document M29-A4 Wayne, PA 2014.

Biocare Medical 60 Berry Drive

Pacheco, CA 94553

USA

SynaptophysinConcentrated and Prediluted Monoclonal Antibody 902-371-103122



 ${\bf Q}$ Series antibodies are developed solely by Biocare Medical LLC and do not imply approval or endorsement of Biocare antibodies by Leica Biosystems. Biocare and Leica Biosystems are not affiliated, associated or related in any way. Leica, Leica Biosystems, BOND-MAX and BOND-III are trademarks of Leica Biosystems.

Biocare Medical 60 Berry Drive Pacheco, CA 94553 USA