Nerve Growth Factor Receptor (NGFR)  
Concentrated Rabbit Monoclonal Antibody  
Control Number: 901-369-111918

Catalog Number: ACI 369 A  
Description: 0.1 mL, conc.  
Dilution: 1:50  
Diluent: Da Vinci Green

Intended Use:  
For In Vitro Diagnostic Use  
Nerve Growth Factor Receptor (NGFR) [EP31] is a rabbit monoclonal antibody that is intended for laboratory use in the qualitative identification of Nerve Growth Factor Receptor 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:  
Nerve Growth Factor Receptor antibody may be a useful immunohistochemical marker, when used in conjunction with S100 antibody, in the evaluation of desmoplastic and neurotrophic malignant melanomas, which are often negative for other melanocytic markers (HMB-45, MART-1/Melan-A) (3). NGF receptor antibody is also expressed on Schwann cells, neuronal axons and perineural cells, as well as tumors derived from those cells, to include malignant peripheral nerve sheath tumors, Schwannomas, granular cell tumors and neurofibromas (1-3).

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 monoclonal  
Species Reactivity: Human; others not tested  
Clone: EP31 (previously known as EP1039Y)  
Isotype: IgG  
Protein Concentration: Call for lot specific Ig concentration.  
Epitope/Antigen: Nerve Growth Factor Receptor  
Cellular Localization: Cytoplasmic  
Positive Tissue Control: Neuronal tissues and pancreas  
Known Applications: Immunohistochemistry (formalin-fixed paraffin-embedded tissues)  
Supplied As: Buffer with protein carrier and preservative

Storage and Stability:  
Store at 2ºC to 8ºC. 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 2ºC to 8ºC.

Protocol Recommendations (intelliPATH FLX® and manual use):  
Peroxide Block: Block for 5 minutes with Peroxidized 1.  
Pretreatment: Perform heat retrieval using Diva Decloaker. Refer to the Diva Decloaker product data sheet for specific instructions.  
Protein Block (Optional): Incubate for 5-10 minutes at RT with Background Punisher.  
Primary Antibody: Incubate for 5-10 minutes at RT.  
Probe: N/A  
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 Warp Red.

Protocol Recommendations (intelliPATH FLX and manual use) Cont’d:  
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 2 detection system. Use TBS 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 titers 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.

Quality Control:  

Precautions:  
1. This antibody contains less than 0.1% sodium azide. Concentrations less than 0.1% are not reportable hazardous material 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) (4)  
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 in contact with sensitive areas, wash with copious amounts of water. (5)  
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 expiration date printed on the vial.  
6. The SDS is available upon request and is located at http://biocare.net.

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:  
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References Cont’d:

Produced using Abcam's RabMab® technology. RabMab® technology is covered by the following U.S. Patents, No. 5,675,063 and/or 7,429,487.