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| Clone | EP277 |
| Source | Rabbit Monoclonal |
| Cat # | PR247-6ml RTU PR247-3ml RTU  HAR247-6ml RTU HAR247-3ml RTU |
| Regulatory Status | IVD |

FOXA1- (EP277)

**Intended Use:**

This antibody is intended for use to qualitatively identify FOXA1 antigen by light microscopy in formalin fixed, paraffin embedded tissue sections using immunohistochemical detection methodology. Interpretation of any positive or negative staining must be complemented with the evaluation of proper controls and must be made within the context of the patient’s clinical history and other diagnostic tests. A qualified pathologist must perform evaluation of the test.

**Summary and Explanation:**   
  
The transcription factor Forkhead-box A1 (FOXA1), also known as hepatocyte nuclear factor 3-alpha, is a member of the FOX class of transcription factors. FOXA1 has been identified as a hepatocyte enriched factor required for the expression of transthyretin and α1- antitrypsin.

Recently, FOXA1 has been shown to be a major determinant of estrogen-ER activity and endocrine response in breast cancer cells. FOXA1 expression correlates with estrogen receptor (ER)-positivity, especially in luminal subtype A breast cancers, which is associated with favorable prognosis.

**Isotype:** Rabbit IgG

**Immunogen:** A protein fragment corresponding to human FOXA1 protein.

**Reagent Provided:**

**Pre-diluted format:** PathnSitu ready to use antibodies are pre tittered to optimal staining   
 conditions. Further dilution may loose the activity and may yield to sub   
 optimal staining.

**Storage Recommendations:** Store at 2°-8°C. Do not use after expiration date provided on the vial.

**Staining Recommendations:   
 Antigen Retrieval Solution:** Use **Tris-EDTA/ EDTA (PathnSitu Cat # PS009 or PS008)** as antigen   
 retrieval solution Heat Retrieval Method: Retrieve sections under steam   
 pressure for 15 min using PathnSitu’s MERS (Multi Epitope Retrieval   
 System) then allow solution to cool for 10 minutes then transfer tissue   
 sections/slides to distilled water.

**Primary Antibody:**  Cover the tissue sections with primary antibody and incubate for 30   
 min at room temperature when used PathnSitu PolyExcel Detection   
 System.

**Detection System:** Refer to PathnSitu PolyExcel detection system protocol or manufacturer’s detection kit staining protocol when used other vendor detection system.

**Cellular Localization:** Nucleus

**Positive Control:** Breast Ca

**Troubleshooting:** Follow the antibody specific protocol recommendations according to data sheet provided. If unusual results occur, contact PathnSitu Technical Support at 040-2701 5544 or techsupport@pathnsitu.com.

**Limitations and Warranty:** There are no warranties, expressed or implied, which extend beyond this   
 description. PathnSitu is not liable for property damage, personal injury, or   
 economic loss caused by this product.

**Bibliography:**  1. Wolf I, et al.: Int J Cancer 2007, 120:1013-1022   
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 3. Hurtado A, et al.: Nat Genet 2011, 43:27-33   
 4. Clark KL, et al.: Nature 1993, 364:412-420   
 5. Bernardo GM, et al.: Development 2010, 137:2045-2054   
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**FOXA1, EP277 antibody has been created by Epitomics Inc., using Epitomics’ proprietary rabbit monoclonal antibody technology covered under Patent No.’s 5,675,063 and 7,402,409.**