

## 36-2495: Anti-FOXA1 / HNF3A Monoclonal Antibody(Clone: FOXA1/1512)

|                                |  |
|--------------------------------|--|
| <b>Clonality :</b>             | Monoclonal   |
| <b>Clone Name :</b>            | FOXA1/1512   |
| <b>Application :</b>           | FACS,IF,WB,IHC   |
| <b>Reactivity :</b>            | Human  |
| <b>Gene :</b>                  | FOXA1  |
| <b>Gene ID :</b>               | 3169   |
| <b>Uniprot ID :</b>            | P55317   |
| <b>Alternative Name :</b>      | Forkhead box protein A1 (FOXA1); Hepatocyte nuclear factor 3-alpha (HNF-3-alpha or HNF-3A or HNF3A); Transcription factor 3A (TCF-3A or TCF3A) |
| <b>Isotype :</b>               | Mouse IgG1, kappa  |
| <b>Immunogen Information :</b> | Recombinant human FOXA1 protein fragment (aa372-472) (exact sequence is proprietary)   |

### Description

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. HNF-1 ( $\alpha$ ), and HNF-6 compose, in part, a homeoprotein family designated the hepatocyte nuclear factor family. The various HNF-1 isoforms regulate transcription of genes in the liver as well as in other tissues such as kidney, small intestine and thymus. FOXA1 is expressed in normal breast ductal epithelium and other epithelium in different organs, such as lung, pancreas, bladder, prostate, and colon. 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. FOXA1 is useful in the sub-classification of breast carcinomas.

### Product Info

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|----------------------------|--|
| <b>Amount :</b>            | 20 $\mu$ g / 100 $\mu$ g   |
| <b>Content :</b>           | 200 $\mu$ g/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| <b>Storage condition :</b> | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.                                    |

### Application Note

Flow Cytometry (1-2 $\mu$ g/million cells); Immunofluorescence (1-2 $\mu$ g/ml); Western Blot (1-2 $\mu$ g/ml); Immunohistochemistry (Formalin-fixed) (1-2 $\mu$ g/ml for 30 minutes at RT) (Staining of formalin-fixed tissues is enhanced by heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0 for 45 min at 95°C followed by cooling at RT for 20 minutes);

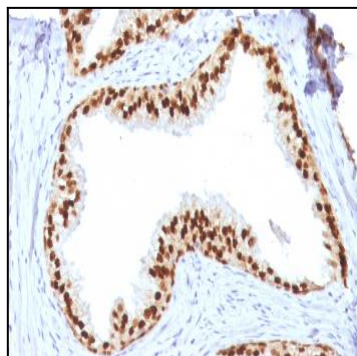


Fig. 1: Formalin-fixed, paraffin-embedded human Prostate stained with FOXA1 Mouse Monoclonal Antibody (FOXA1/1512).

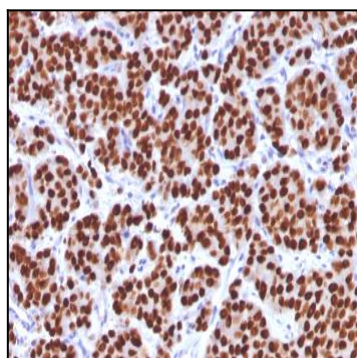


Fig. 2: Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with FOXA1 Mouse Monoclonal Antibody (FOXA1/1512).

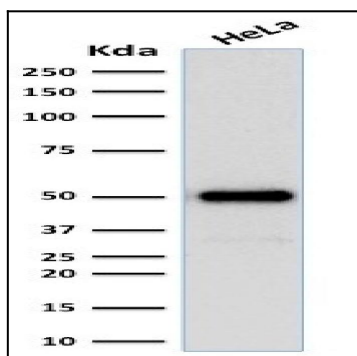


Fig. 3: Western Blot Analysis of human HeLa cell lysate using FOXA1 Monoclonal Antibody (FOXA1/1512).

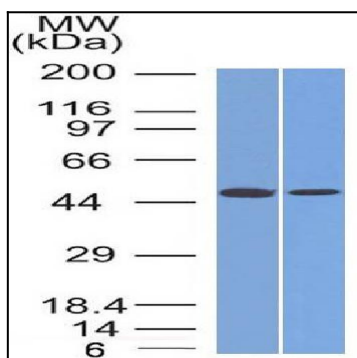


Fig. 4: Western Blot Analysis (A) MCF-7 (B) PC3 cell lysate Using FOXA1 Monoclonal Antibody (FOXA1/1512)

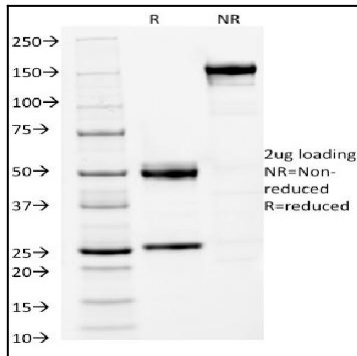


Fig. 5: SDS-PAGE Analysis Purified FOXA1 Monoclonal Antibody (FOXA1/1512). Confirmation of Integrity and Purity of Antibody.