

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FoxO1/FKHR in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human FoxA1 (aa 253-472), B1 (aa 191-324), C1 (aa 208-322), D3 (aa 1-140), F1 (aa 129-354), G1 (aa 283-489), J1 (aa 301-421), J3 (aa 375-552), K1 (aa 493-670), M1 (aa 642-763), O3A (aa 372-673), P1 (aa 231-420), P2 (aa 269-460), P3 (aa 179-279), or P4 (aa 229-410) is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 597554
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> - derived recombinant human FoxO1/FKHR Ala353-Gly655 Accession # Q12778
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

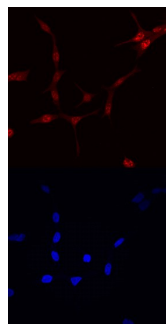
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



FoxO1/FKHR in LNCaP Human Cell Line. FoxO1/FKHR was detected in immersion fixed LNCaP human prostate cancer cell line using Human FoxO1/FKHR Monoclonal Antibody (Catalog # MAB5939) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red, upper panel; Catalog # NL007) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

FoxO1, also called FKHR (forkhead in rhabdomyosarcoma), is a 655 amino acid (aa), 70 kDa, ubiquitously expressed member of the forkhead box O family of winged helix transcription factors. In neurons, it is activated in response to stress, translocating to the nucleus where it promotes apoptosis and blocks proliferation. In insulin-responsive tissues, nutrient abundance triggers phosphorylation by AKT that blocks nuclear translocation and activity. A 60 kDa form, cleaved at R537, has been found in androgen-treated prostate cancer cells. Over aa 353-655, human FoxO1 shares 93% aa identity with mouse and rat FoxO1.