

DESCRIPTION

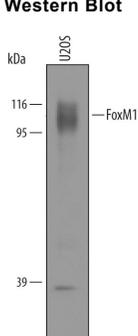
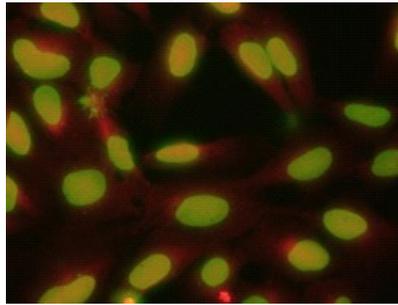
Species Reactivity	Human
Specificity	Detects human FoxM1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) FoxB2 and rhFoxJ1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FoxM1 Thr642-Gln763 Accession # Q08050
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
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human FoxM1 by Western Blot. Western blot shows lysates of U2OS human osteosarcoma cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human FoxM1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3975) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for FoxM1 at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.</p>	<p>Immunocytochemistry</p>  <p>FoxM1 in U2OS Human Cell Line. FoxM1 was detected in immersion fixed U2OS human osteosarcoma cell line using 10 µg/mL Sheep Anti-Human FoxM1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3975) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained (green). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
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

FoxM1 (Forkhead box protein M1; also FKHL16, HFH11 and WIN) is a 90-100 kDa member of the winged helix transcription factor gene family. It is expressed in proliferating and tumor cells and promotes the transition from G₁ to S phase and G₂ to M phase within the cell cycle. Human FoxM1 is 763 amino acids (aa) in length. It contains three PEST sequences (aa 22-34, 460-472 and 478-515), a forkhead DNA binding domain (aa 235-327), a Pro/Ser/Thr-rich region (aa 480-513) and a phosphorylation site at Ser704. There are at least two splice variants. The first shows a 38 aa insertion after Val423. This blocks FoxM1 transcriptional activation activity. The second variant shows a deletion of aa 326-340. Over aa 642-763, human FoxM1 shares 73% aa identity with mouse FoxM1.