Human FoxM1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF3975

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	*E. coli*-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.

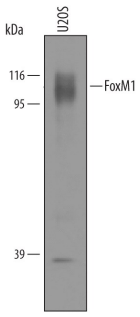
APPLICATIONS

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

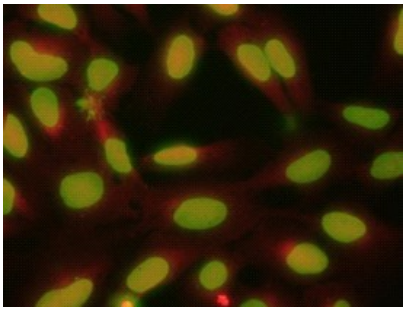
DATA

Western Blot



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.

Immunocytochemistry



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.

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.** ● 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 G_1 to S phase and G_2 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.