Human FoxO1/FKHR Antibody

Antigen Affinity-purified Polyclonal Sheep IgG

Catalog Number: AF5939

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FoxO1/FKHR in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-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.

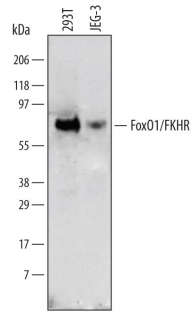
APPLICATIONS

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
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human FoxO1/FKHR by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line and JEG-3 human epithelial choriocarcinoma cell line. PVDF membrane was probed with 1 µg/mL of Human FoxO1/FKHR Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5939) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for FoxO1/FKHR at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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

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/FKHR shares 93% aa identity with mouse and rat FoxO1/FKHR.