Human FoxK1 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF6366

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FoxK1 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse FoxK1 is observed and less than 5% cross-reactivity with recombinant human (rh) FoxK2 and rhFoxJ1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human FoxK1 Lys493-Lys670 Accession # P85037
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.

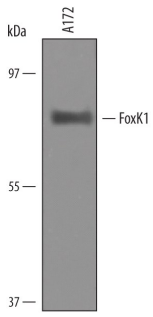
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below

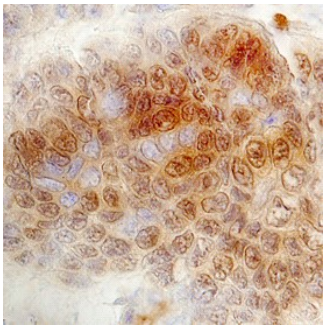
DATA

Western Blot



Detection of Human FoxK1 by Western Blot. Western blot shows lysates of A172 human glioblastoma cell line. PVDF Membrane was probed with 1 µg/mL of Human FoxK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6366) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for FoxK1 at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 7.

Immunohistochemistry



FoxK1 in Human Colon. FoxK1 was detected in immersion fixed paraffin-embedded sections of human colon using Human FoxK1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6366) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to epithelial cell nuclei and cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 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.** ● 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

FOX K1 (Forkhead box protein K1; also MNF) is a 75 kDa (predicted) nuclear protein that is a Class 1 member of the FOX family of transcription factors. It should not be confused with FOXK2/ILF1 that has also been referred to as FOXK1. It is widely expressed, but has become known as a marker for skeletal muscle satellite cells in the adult. Human FOXK1 is 733 amino acids (aa) in length. It contains one FHA domain that binds phosphopeptides (aa 116-203), plus a forkhead DNA binding region (aa 305-400) and over a dozen Ser/Thr phosphorylation sites. There are multiple potential splice variants. Two utilize an alternative start site at Met118 that may be accompanied by a 28 aa substitution for aa 673-733, while another contains 24 aa substitution for aa 1-187. Over aa 493-670, human FOXK1 shares 90% aa identity with mouse FOXK1.

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