

DESCRIPTION

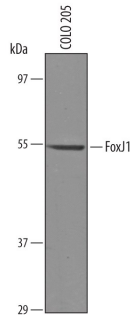
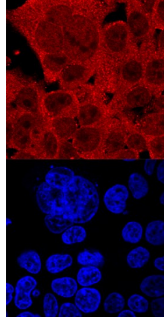
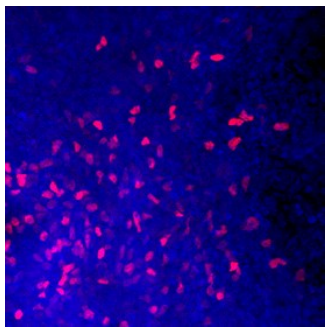
Species Reactivity	Human
Specificity	Detects human FoxJ1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human FoxJ1 Lys306-Leu421 Accession # Q92949
Formulation	Lyophilized from a 0.2 µm filtered solution 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 FoxJ1 by Western Blot. Western blot shows lysates of COLO 205 human colorectal adenocarcinoma cell line. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human FoxJ1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3619) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for FoxJ1 at approximately 58 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Immunocytochemistry</p>  <p>FoxJ1 in HEK293 Human Cell Line. FoxJ1 was detected in immersion fixed HEK293 human embryonic kidney cell line using Goat Anti-Human FoxJ1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3619) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red, upper panel; Catalog # NL001) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei and cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
<p>Immunocytochemistry</p>  <p>FoxJ1 in BG01V Human Embryonic Stem Cells. FoxJ1 was detected in immersion fixed BG01V human embryonic stem cells differentiated to early proximal lung progenitors using Goat Anti-Human FoxJ1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3619) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to nuclei. View our protocol for Fluorescent ICC Staining of Stem Cells on Coverslips.</p>	

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

FoxJ1 (Forkhead box protein J1; also HFH4) is a 55-65 kDa, class 1 member of the HNF-3/forkhead gene family of transcription factors. Its observed MW is higher than its predicted MW (45 kDa), suggesting anomalous migration on SDS-PAGE. FoxJ1 promotes the expression of cilia in respiratory, oviduct and choroid plexus epithelium, and maintains T cell tolerance to self-antigens. Human FoxJ1 is 421 amino acids (aa) in length, and contains one forkhead DNA binding domain (aa's 120-210). The presence of basic residues in the forkhead domain makes FoxJ1 a class 1 Fox protein. There is potential splice variant that contains a 25 aa substitution for aa 262-287. Over aa 306-421, human FoxJ1 shares 88% aa with mouse FoxJ1.