Mouse FoxC2 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6989

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse FoxC2 in direct ELISAs. In direct ELISAs, approximately 50% cross-reactivity with recombinant human (rh) FoxC2 is observed and less than 3% cross-reactivity with rhFoxF2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant mouse FoxC2 Ala412-Tyr494 Accession # Q61850
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.

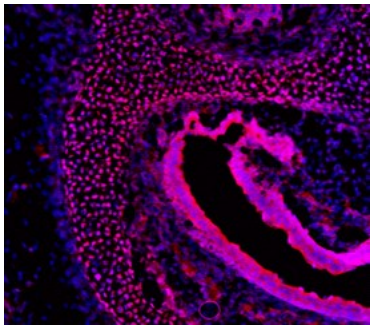
APPLICATIONS

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
Immunohistochemistry	5-15 µg/mL	See Below

DATA

Immunohistochemistry



FoxC2 in Mouse Embryo. FoxC2 was detected in immersion fixed frozen sections of mouse embryo (E15.5) using Sheep Anti-Mouse FoxC2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6989) at 10 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). Specific staining was localized to periocular mesenchyme. View our protocol for Fluorescent IHC Staining of Frozen 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

FOXC2 (Forkhead box protein C2; also BF-3, FKH-14 and MFH-1) is a 64-66 kDa member of the winged helix transcription factor gene family. It is widely expressed, including in endothelium where it induces the appearance of CXCR4 and integrin β3, two molecules essential to cell migration. High-calorie diets also induce FOXC2 in adipocytes, inducing a brown-fat like phenotype. Mouse FOXC2 is 494 amino acids (aa) in length. It contains a forkhead DNA binding domain (aa 71-148), a short poly-Arg segment (aa 162-166), one His-rich region (aa 386-395) and an Ala/Pro-rich domain (aa 396-415). There are seven potential Ser/Thr phosphorylation sites. Over aa 412-494, mouse FOXC2 shares 99% and 87% aa identity with rat and human FOXC2, respectively.

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