

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	<i>E. coli</i> -derived recombinant mouse FoxC2 Ala412-Tyr494 Accession # Q61850
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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