

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | 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.                                                                        |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse FoxC2<br>Ala412-Tyr494<br>Accession # Q61850                                                                                                                                                                                      |
| <b>Conjugate</b>          | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

## PRODUCT SPECIFIC NOTICES

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