

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

FOXC1 RABBIT MAB

Cat.#: N262233 Product Name: Anti-FOXC1 Rabbit Monoclonal Antibody Synonyms: ARA; IGDA; IHG1; FKHL7; IRID1; RIEG3; FREAC3; FREAC-3 UNIPROT ID: Q12948



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Background: DNA-binding transcriptional factor that plays a role in a broad range of cellular and developmental processes such as eye, bones, cardiovascular, kidney and skin development (PubMed:11782474, PubMed:15299087, PubMed:15684392, PubMed:16492674, PubMed:27907090, PubMed:14506133, PubMed:14578375, PubMed:15277473, PubMed:16449236, PubMed:17210863, PubMed:19793056, PubMed:19279310, PubMed:25786029, PubMed:27804176). Acts either as a transcriptional activator or repressor (PubMed:11782474). Binds to the consensus binding site 5'-[G/C][A/T]AAA[T/C]AA[A/C]-3' in promoter of target genes (PubMed:7957066, PubMed:11782474, PubMed:12533514, PubMed:14506133, PubMed:19793056, PubMed:27804176). Upon DNA-binding, promotes DNA bending (PubMed:7957066, PubMed:14506133). Acts as a transcriptional coactivator (PubMed:26565916). Stimulates Indian hedgehog (Ihh)-induced target gene expression mediated by the transcription factor GLI2, and hence regulates endochondral ossification. Acts also as a transcriptional coregulator by increasing DNA-binding capacity of GLI2 in breast cancer cells (PubMed:26565916). Regulates FOXO1 through binding to a conserved element, 5'-GTAAACAAA-3' in its promoter region, implicating FOXCI as an important regulator of cell viability and resistance to oxidative stress in the eye (PubMed:17993506). Cooperates with transcription factor FOXC2 in regulating expression of genes that maintain podocyte integrity. Promotes cell growth inhibition by stopping the cell cycle in the GI phase through TGFB1-mediated signals (PubMed:12408963). Involved in epithelialmesenchymal transition (EMT) induction by increasing cell proliferation, migration and invasion (PubMed:20406990, PubMed:22991501). Involved in chemokine CXCL12-induced endothelial cell migration through the control of CXCR4 expression . Plays a role in the gene regulatory network essential for epidermal keratinocyte terminal differentiation (PubMed:27907090). Essential developmental transcriptional factor required for mesodermderived tissues, such as the somites, skin, bone and cartilage. Positively regulates CXCL12 and stem cell factor expression in bone marrow mesenchymal progenitor cells, and hence plays a role in the development and maintenance of mesenchymal niches for haematopoietic stem and progenitor cells (HSPC). Plays a role in corneal transparency by preventing both blood vessel and lymphatic vessel growth during embryonic development in a VEGF-dependent manner. Involved in chemokine CXCL12induced endothelial cell migration through the control of CXCR4 expression . May function as a tumor suppressor (PubMed:12408963).

Immunogen: Recombinant protein of human FOXC1

Applications: WB,IP

Recommended Dilutions: WB: 1/500-1/1000 IP: 1/20 **Host Species:** Rabbit



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Clone ID: R06-3B5

MW: Calculated MW: 57 kDa; Observed MW: 75 kDa

Isotype: IgG

Purification: Affinity Purified

Species Reactivity: Mouse

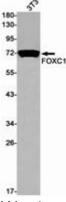
Conjugation: Unconjugated

Modification: Unmodified

Constituents: PBS (without Mg2+ and Ca2+), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Epigenetics and Nuclear Signaling

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



Western blot analysis of FOXC1 in 3T3 lysates using FOXC1 antibody.