

**FOXC1 antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AD80593****Specification**

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**FOXC1 antibody - Product info**

Application	IHC-P
Primary Accession	<a href="#">Q12948</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	56789 Da

**FOXC1 antibody - Additional info**

Gene ID	2296
<b>Dilution</b>	
IHC-P~~N/A	

**Storage**

Maintain refrigerated at 2-8°C

**Precautions****FOXC1 antibody is for research use only and not for use in diagnostic or therapeutic procedures.****FOXC1 antibody - Protein Information****Name** FOXC1Synonyms  
Function**FKHL7, FREAC3**  
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](#),

## Cellular Location

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 (By similarity). 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 FOXC1 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 (By similarity). Promotes cell growth inhibition by stopping the cell cycle in the G1 phase through TGFB1- mediated signals (PubMed:[12408963](#)). Involved in epithelial-mesenchymal 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 (By similarity). Plays a role in the gene regulatory network essential for epidermal keratinocyte terminal differentiation (PubMed:[27907090](#)). Essential developmental transcriptional factor required for mesoderm-derived 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 CXCL12-induced endothelial cell migration through the control of CXCR4 expression (By similarity). May function as a tumor suppressor (PubMed:[12408963](#)). Nucleus Note=Colocalizes with PITX2 isoform 3 in the nucleus at subnuclear chromatine regions (PubMed:[16449236](#)).

**Tissue Location**

Colocalizes with CBX5 to a heterochromatin-rich region of the nucleus (PubMed:15684392) Colocalizes with GLI2 in the nucleus (By similarity) {ECO:0000250|UniProtKB:Q61572, ECO:0000269|PubMed:15684392, ECO:0000269|PubMed:16449236} Expressed in keratinocytes of epidermis and hair follicle (PubMed:27907090). Expressed strongly in microvascular invasion (MVI) formation, basal-like breast cancer (BLBC) and hepatocellular tumors (PubMed:20406990, PubMed:22991501). Expressed in breast cancers (at protein level) (PubMed:26565916). Expressed in hematopoietic cells (PubMed:8499623).

**FOXC1 antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**FOXC1 antibody - Images**