

**FOXC1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8907B**

**Specification**

---

**FOXC1 Antibody (C-term) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">Q12948</a>
Other Accession	<a href="#">Q32NP8</a> , <a href="#">Q9PVZ3</a> , <a href="#">Q9DE25</a> , <a href="#">Q61572</a>
Reactivity	Human
Predicted	Mouse, Zebrafish, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	56789
Antigen Region	488-515

**FOXC1 Antibody (C-term) - Additional Information**

**Gene ID** 2296

**Other Names**

Forkhead box protein C1, Forkhead-related protein FKHL7, Forkhead-related transcription factor 3, FREAC-3, FOXC1, FKHL7, FREAC3

**Target/Specificity**

This FOXC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 488-515 amino acids from the C-terminal region of human FOXC1.

**Dilution**

WB~~1:1000  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

FOXC1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**FOXC1 Antibody (C-term) - Protein Information**

**Name** FOXC1

## Synonyms FKHL7, FREAC3

**Function** 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 (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 FOXO1 as an important regulator of cell viability and resistance to oxidative stress in the eye (PubMed:[17993506](#)). Cooperates with transcription factor FOXO2 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 TGFβ1- 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](#)).

## Cellular Location

Nucleus Note=Colocalizes with PITX2 isoform 3 in the nucleus at subnuclear chromatin regions (PubMed:[16449236](#)). 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](#)}

## Tissue Location

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](#)).

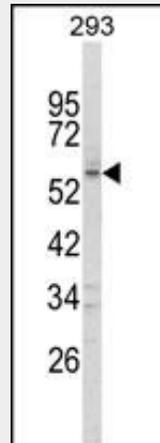
## FOXO1 Antibody (C-term) - Protocols

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

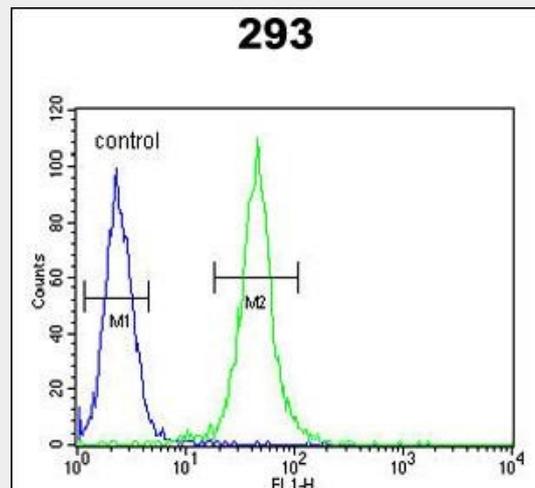
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### FOXC1 Antibody (C-term) - Images



Western blot analysis of FOXC1 Antibody (C-term) (Cat. #AP8907b) in 293 cell line lysates (35ug/lane). FOXC1 (arrow) was detected using the purified Pab.



FOXC1 Antibody (C-term) (Cat. #AP8907b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### FOXC1 Antibody (C-term) - Background

Binding of FREAC-3 and FREAC-4 to their cognate sites results in bending of the DNA at an angle of 80-90 degrees.

### FOXC1 Antibody (C-term) - References

- Mears, A.J., et al., Am. J. Hum. Genet. 59 (6), 1321-1327 (1996)  
Gould, D.B., et al., Am. J. Hum. Genet. 61 (3), 765-768 (1997)