

**GSC Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1807a****Specification****GSC Antibody - Product Information**

Application	E, WB, FC, IHC
Primary Accession	<a href="#">P56915</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	28.2kDa KDa

**Description**

This gene encodes a member of the bicoid subfamily of the paired (PRD) homeobox family of proteins. The encoded protein acts as a transcription factor and may be autoregulatory. A similar protein in mice plays a role in craniofacial and rib cage development during embryogenesis.

**Immunogen**

Purified recombinant fragment of human GSC (AA: 191-257) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**GSC Antibody - Additional Information**

**Gene ID** 145258

**Other Names**

Homeobox protein goosecoid, GSC

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
FC~~1/200 - 1/400  
IHC~~1/200 - 1/1000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GSC Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**GSC Antibody - Protein Information**

**Name** GSC

## Function

Regulates chordin (CHRD). May play a role in spatial programming within discrete embryonic fields or lineage compartments during organogenesis. In concert with NKX3-2, plays a role in defining the structural components of the middle ear; required for the development of the entire tympanic ring (By similarity). Probably involved in the regulatory networks that define neural crest cell fate specification and determine mesoderm cell lineages in mammals.

## Cellular Location

Nucleus.

## GSC 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](#)

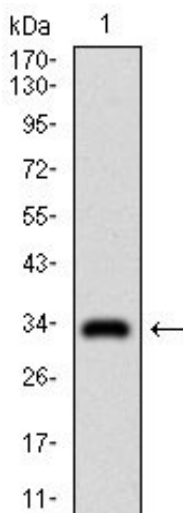
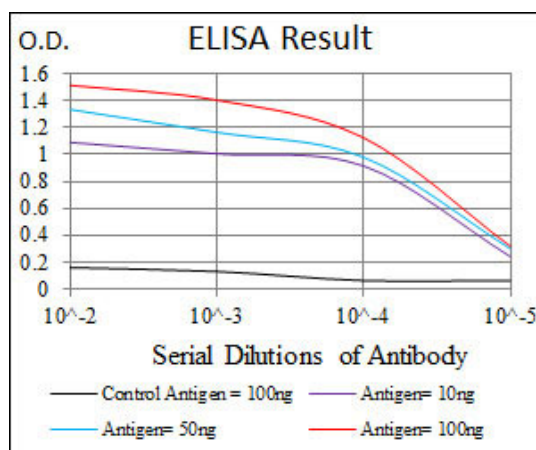


Figure 1: Western blot analysis using GSC mAb against human GSC recombinant protein. (Expected MW is 33.5 kDa)

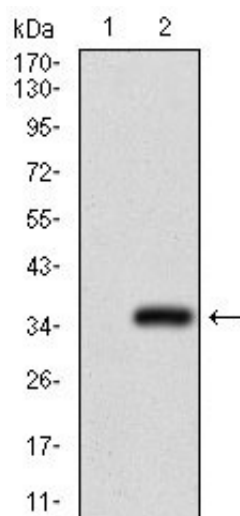


Figure 2: Western blot analysis using GSC mAb against HEK293 (1) and GSC (AA: 191-257)-hIgGFc transfected HEK293 (2) cell lysate.

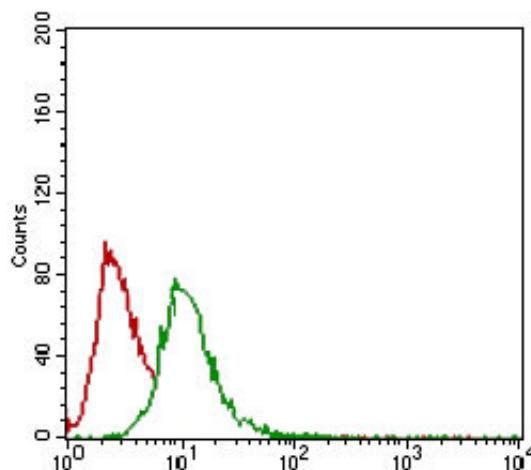


Figure 4: Flow cytometric analysis of Hela cells using GSC mouse mAb (green) and negative control (red).

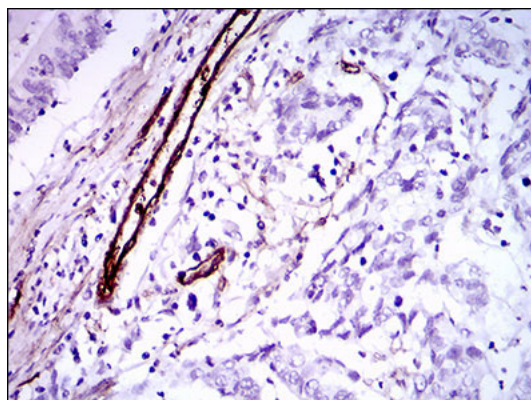


Figure 5: Immunohistochemical analysis of paraffin-embedded colon cancer tissues using GSC mouse mAb with DAB staining.

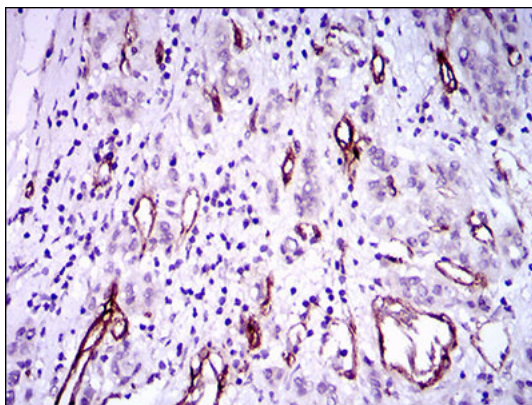


Figure 6: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using GSC mouse mAb with DAB staining.

### **GSC Antibody - Background**

This gene encodes a member of the bicoid subfamily of the paired (PRD) homeobox family of proteins. The encoded protein acts as a transcription factor and may be autoregulatory. A similar protein in mice plays a role in craniofacial and rib cage development during embryogenesis. ;

### **GSC Antibody - References**

1. Dev Biol. 2012 Feb 1;362(1):94-103.
2. Proc Natl Acad Sci U S A. 2006 Dec 12;103(50):18969-74.