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# GSC Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1807a

## Product Information

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|---|---|
| **Application** | WB, IHC, FC, E |
| **Primary Accession** | P56915 |
| **Reactivity** | Human |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 4C5D5 |
| **Isotype** | IgG1 |
| **Calculated MW** | 28150 |
| **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 |

## Additional Information

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|---|---|
| **Gene ID** | 145258 |
| **Other Names** | Homeobox protein goosecoid, GSC |
| **Dilution** | WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 E~~1/10000 |
| **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. |

## Protein Information

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|---|---|
| **Name** | GSC |
| **Function** | Regulates chordin (CHRD). May play a role in spatial programing 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.

## 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. ;

## 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.

## Images

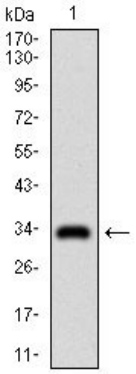



Figure 1: Western blot analysis using GSC mAb against human GSC recombinant protein. (Expected MW is 33.5 kDa)

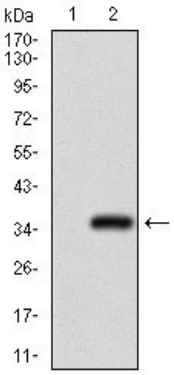



Figure 2: Western blot analysis using GSC mAb against HEK293 (1) and GSC (AA: 191-257)-hIgGFc transfected HEK293 (2) cell lysate.

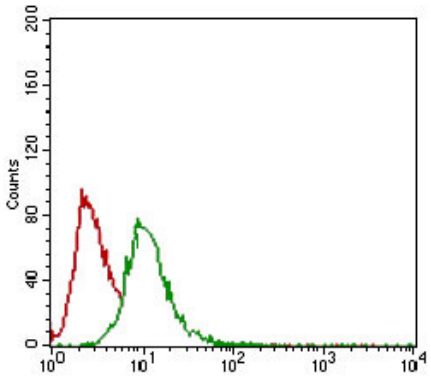



Figure 4: Flow cytometric analysis of Hela cells using GSC mouse mAb (green) and negative control (red).

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

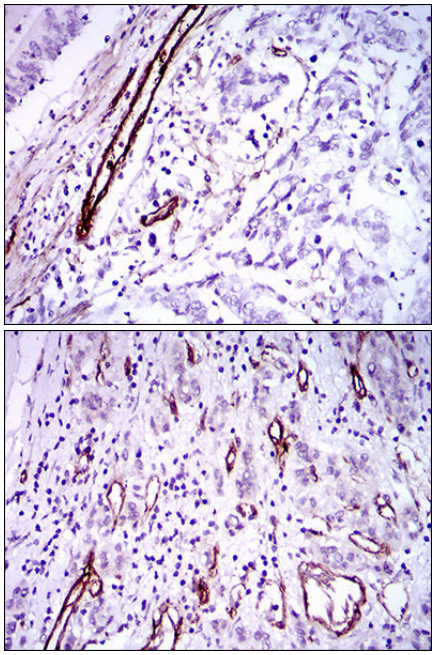


Figure 6: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using GSC mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.