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GSC Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1807a

Product Information

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

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

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

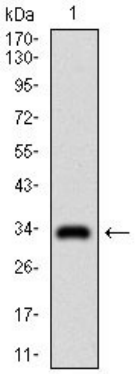

Figure 1: Western blot analysis using GSC mAb against human GSC recombinant protein. (Expected MW is 33.5 kDa)

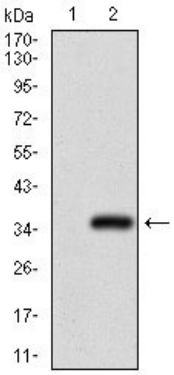

Figure 2: Western blot analysis using GSC mAb against HEK293 (1) and GSC (AA: 191-257)-hIgGFc transfected HEK293 (2) cell lysate.

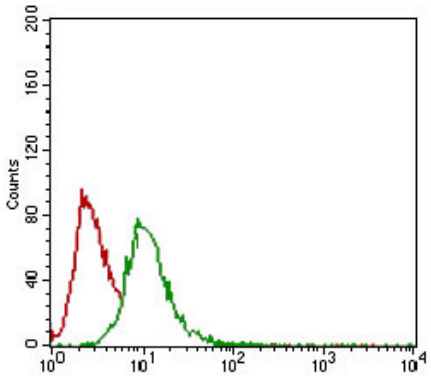

Figure 4: Flow cytometric analysis of Hela cells using GSC mouse mAb (green) and negative control (red).

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

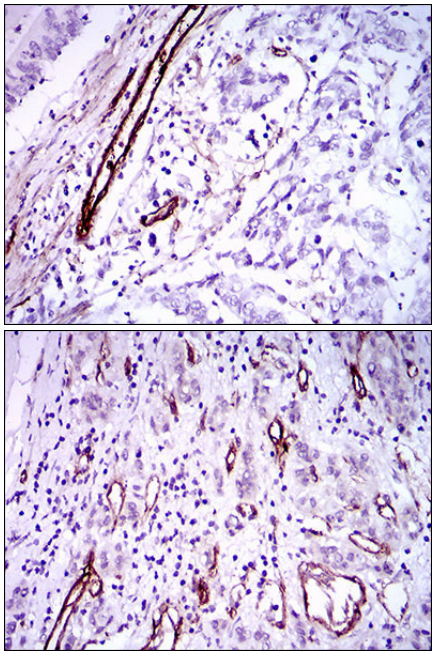

Figure 6: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using GSC mouse mAb with DAB staining.