

CPTC-GSC-4 (CAB079925)

Uniprot ID: [P56915](#)

Protein name: GSC_HUMAN

Full name: Homeobox protein gooseoid

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.

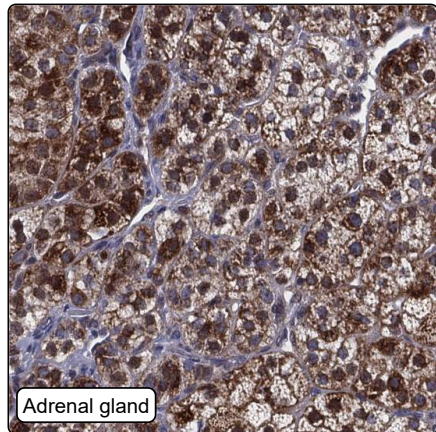
Subcellular location:

Nucleus

Protein existence: Experimental evidence at protein level

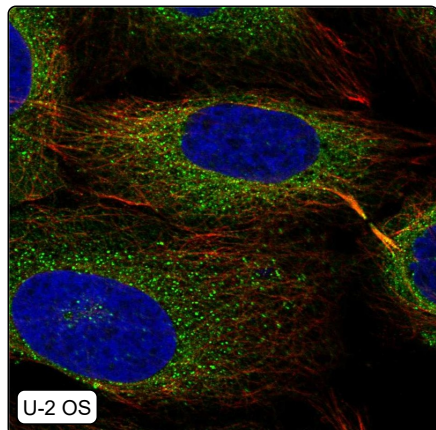
Comment:

Immunohistochemistry



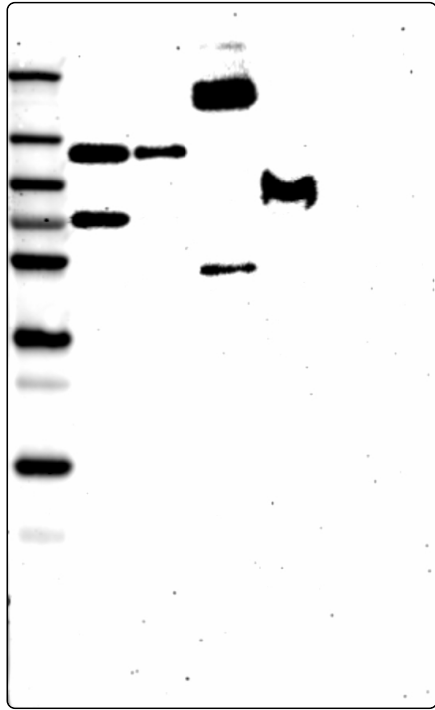
IHC protocol:	HIER pH6, Dilution 1:12000
IHC test staining:	Moderate to strong cytoplasmic positivity in few tissues. Additional strong nuclear positivity in a subset of immune cells.
Literature conformance:	Not consistent with gene/protein characterization data
Literature significance:	Limited
RNA consistency:	Mainly not consistent with RNA expression data
IHC Sibling similarity:	Other antibody shows dissimilar IHC staining pattern
IHC fail comment:	ANTIBODY FAILED: Improbable subcellular location, Not consistent with RNA

Immunofluorescence



IF Overlay:	antibody (green), anti-tubuline (red) and DAPI (blue)
IF main location:	Cytosol - 12: Uncertain (auto) Vesicles - 12: Uncertain (auto) Microtubules - 12: Uncertain (auto) Cytokinetic bridge - 12: Uncertain (auto)
IF additional location:	
IF Antibody score:	Failed IF
IF in HEK 293:	Negative
IF in REH:	Negative
IF in U-2 OS:	Vesicles Csk(mt) Csk (cyt bridge) Cytosol

Western blot



WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10
WB Lanes:	Marker (1), RT4 (2), U-251 MG (3), Plasma (4), Liver (5), Tonsil (6)
WB Target weight (kDa):	28
WB Validation:	Uncertain (Only bands not corresponding to the predicted size.)