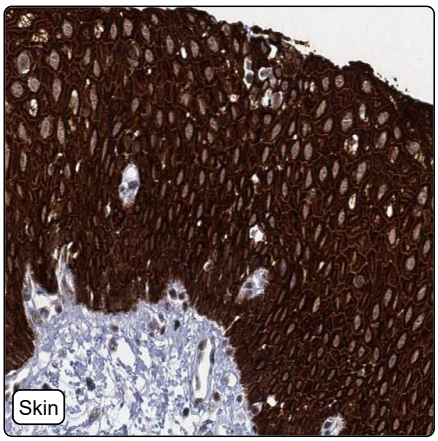
CPTC-GSC (Epitope aa 2-18)-1 (CAB079923)

Uniprot ID: P56915
Protein name: GSC_HUMAN
Full name: Homeobox protein goosecoid
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.
Subcellular location:
Nucleus
Protein existence: Experimental evidence at protein level

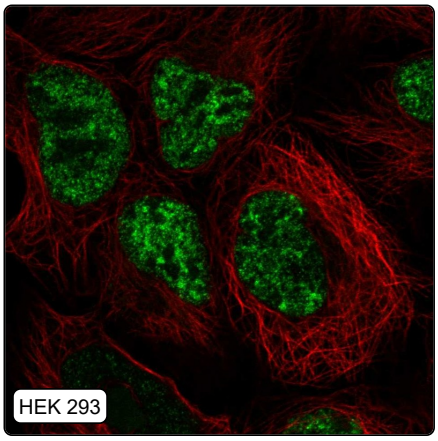
Comment: ICC-IF: We will try to get a good staining of this antibody in two more cell lines, before publication on the HPA. /Ulrika Axelsson

Immunohistochemistry



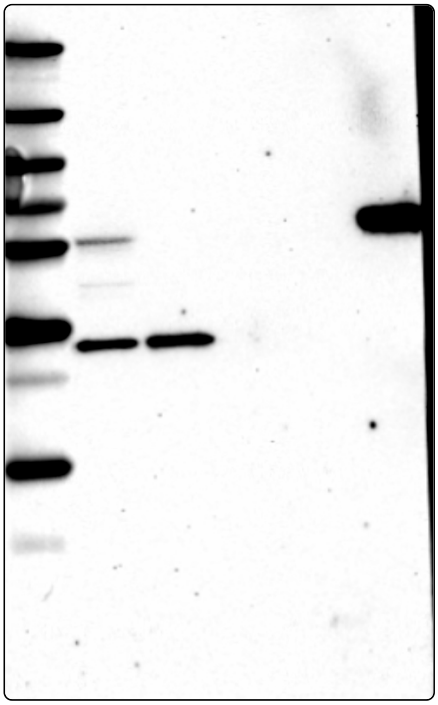
IHC protocol:	HIER pH6, Dilution 1:650
IHC test staining:	Moderate to strong cytoplasmic positivity in squamous epithelium with additional nuclear positivity in a few other tissues.
Literature conformance:	Partly consistent with gene/protein characterization data
Literature significance:	Limited
RNA consistency:	Not consistent with RNA expression data
IHC Sibling similarity:	Other antibody shows partly similar IHC staining pattern
IHC fail comment:	ANTIBODY FAILED: Not consistent with RNA

Immunofluorescence



IF Overlay:	antibody (green), anti-tubuline (red) and DAPI (blue)
IF main location:	Nucleoplasm - no score
IF additional location:	
IF Antibody score:	
IF in HEK 293:	Nucleoplasm
IF in REH:	Negative
IF in U-2 OS:	Negative

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 (Weak band of predicted size but with additional bands of higher intensity also present.)