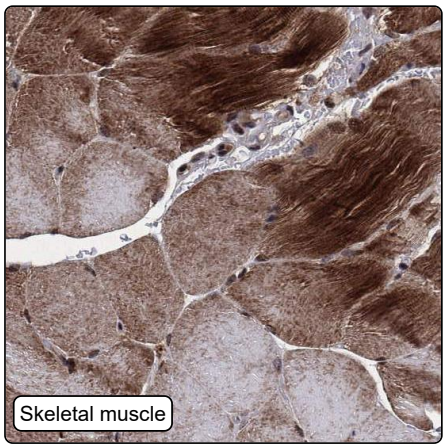
CPTC-GSC (Epitope aa 2-18)-2 (CAB079924)

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

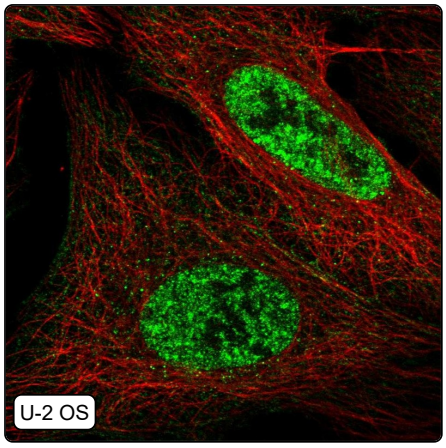
Comment:

Immunohistochemistry



IHC protocol:	HIER pH6, Dilution 1:250
IHC test staining:	Moderate cytoplasmic positivity in skeletal muscle, gastrointestinal tract and neuronal processes. Additional weak to moderate nuclear positivity in few tissues.
Literature conformance:	Partly consistent with gene/protein characterization data
Literature significance:	Limited
RNA similarity:	Low consistency between antibody staining and RNA expression data
RNA tissue specificity:	Tissue enhanced (breast)
RNA tissue distribution:	Detected in many
IHC Sibling similarity:	Other antibody shows partly similar IHC staining pattern

Immunofluorescence



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

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 (No bands detected.)