

**CHSY1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13586c****Specification**

---

**CHSY1 Antibody (Center) - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | FC, WB,E                    |
| Primary Accession | <a href="#">Q86X52</a>      |
| Other Accession   | <a href="#">NP_055733.2</a> |
| Reactivity        | Human, Mouse                |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit IgG                  |
| Calculated MW     | 91784                       |
| Antigen Region    | 504-533                     |

**CHSY1 Antibody (Center) - Additional Information****Gene ID** 22856**Other Names**

Chondroitin sulfate synthase 1, Chondroitin glucuronyltransferase 1, Chondroitin synthase 1, ChSy-1, Glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase 1, N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase 1, N-acetylgalactosaminyltransferase 1, CHSY1, CHSY, CSS1, KIAA0990

**Target/Specificity**

This CHSY1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 504-533 amino acids from the Central region of human CHSY1.

**Dilution**

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CHSY1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**CHSY1 Antibody (Center) - Protein Information**

**Name** CHSY1 ([HGNC:17198](#))

**Synonyms** CHSY, CSS1, KIAA0990

**Function** Has both beta-1,3-glucuronic acid and beta-1,4-N- acetylgalactosamine transferase activity. Transfers glucuronic acid (GlcUA) from UDP-GlcUA and N-acetylgalactosamine (GalNAc) from UDP- GalNAc to the non-reducing end of the elongating chondroitin polymer. Involved in the negative control of osteogenesis likely through the modulation of NOTCH signaling.

**Cellular Location**

Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Secreted

**Tissue Location**

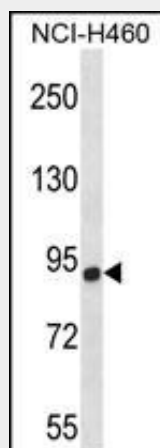
Ubiquitous, with the highest levels in placenta. Detected at low levels in brain, heart, skeletal muscle, colon, thymus, spleen, kidney, liver, adrenal gland, mammary gland, stomach, small intestine, lung and peripheral blood leukocytes

**CHSY1 Antibody (Center) - Protocols**

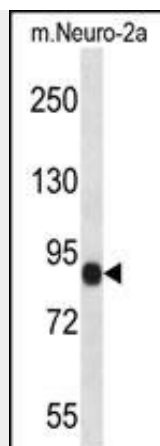
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

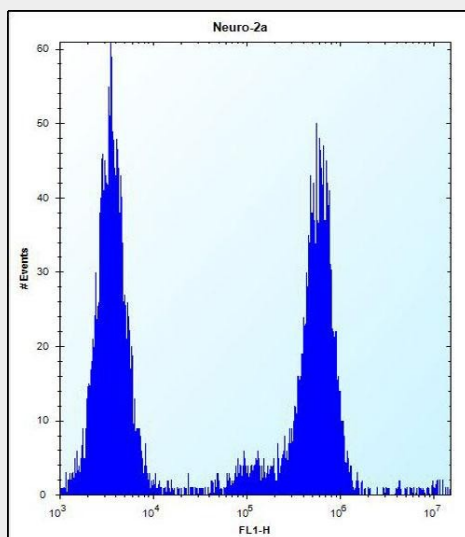
**CHSY1 Antibody (Center) - Images**



CHSY1 Antibody (Center) (Cat. #AP13586c) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the CHSY1 antibody detected the CHSY1 protein (arrow).



CHSY1 Antibody (Center) (Cat. #AP13586c) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the CHSY1 antibody detected the CHSY1 protein (arrow).



CHSY1 Antibody (Center) (Cat. #AP13586c) flow cytometric analysis of Neuro-2a cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.

### **CHSY1 Antibody (Center) - Background**

CHSY1 synthesizes chondroitin sulfate, a glycosaminoglycan expressed on the surface of most cells and in extracellular matrices. Glycosaminoglycan chains are covalently linked to a wide range of core protein families and regulate many biologic processes, including cell proliferation and recognition, extracellular matrix deposition, and morphogenesis. [supplied by OMIM].

### **CHSY1 Antibody (Center) - References**

Yada, T., et al. J. Biol. Chem. 278(41):39711-39725(2003)  
Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)  
Kitagawa, H., et al. J. Biol. Chem. 278(26):23666-23671(2003)  
Kitagawa, H., et al. J. Biol. Chem. 276(42):38721-38726(2001)