



## Anti-human HAPLN4 Antibody

### ORDERING INFORMATION

**Catalog Number:** AF4085

**Lot Number:** ZCD01

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** human HAPLN4

**Immunogen:** NS0-derived rhHAPLN4

**Ig Type:** goat IgG

**Applications:** Western blot  
Immunoprecipitation  
Immunohistochemistry

### Background

HAPLN4 (hyaluronan and proteoglycan link protein 4; also Bra12) is a 40 - 42 kDa secreted member of the Link module superfamily. It is secreted by select neurons, particularly of the cerebellum, where it participates in ECM stability. Here it may link hyaluronic acid with resident proteoglycans. Mature HAPLN4 is 383 amino acids (aa) in length. It contains one Ig-like C2-type domain (aa 46 - 161) and two link domains (aa 163 - 365). One potential alternate start site exists 36 aa upstream of the standard start site. Human and mouse HAPLN4 share 91% aa sequence identity.

### Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human HAPLN4 (rhHAPLN4; aa 30 - 402; Accession # Q86UW8). Human HAPLN4 specific IgG was purified by human HAPLN4 affinity chromatography.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody has been selected for its ability to recognize human HAPLN4 in the applications listed below. In Western blots, this antibody shows less than 1% cross-reactivity with rhHAPLN1.

### Applications

**Western blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human HAPLN4. The detection limit for rhHAPLN4 is approximately 10 ng/lane under non-reducing and reducing conditions.

**Immunoprecipitation** - This antibody has been used to immunoprecipitate rhHAPLN4 from conditioned media of transfected NS0 cells.

**Immunohistochemistry** - This antibody will detect human HAPLN4 in cells and tissues. The working dilution is 3 - 10 µg/mL. Antigen retrieval is recommended. For chromogenic detection of labeling, use R&D Systems Cell and Tissue Staining Kits (CTS series).

**Optimal dilutions should be determined by each laboratory for each application.**