

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HAPLN4 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human HAPLN1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human HAPLN4 Gln30-Val402 Accession # Q86UW8
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

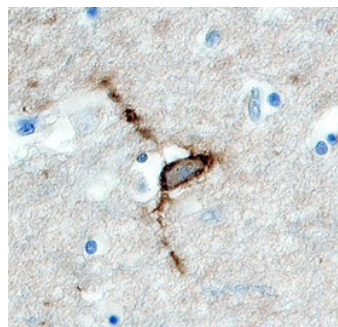
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human HAPLN4
Immunohistochemistry	5-15 µg/mL	See Below
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human HAPLN4, see our available Western blot detection antibodies

DATA

Immunohistochemistry



HAPLN4 in Human Brain. HAPLN4 was detected in immersion fixed paraffin-embedded sections of human brain (caudate nucleus) using 3 µg/mL Goat Anti-Human HAPLN4 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4085) overnight at 4 °C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained with the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

HAPLN4 (hyaluronan and proteoglycan link protein 4; also Bral2) 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.