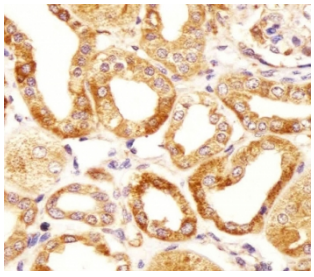
Hyaluronan synthase 2 Antibody / HAS2 (F54515)

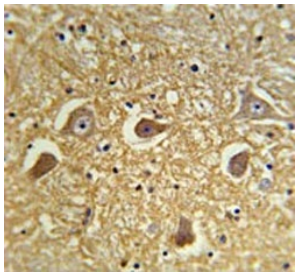
Catalog No.	Formulation	Size
F54515-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54515-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

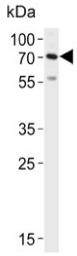
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
UniProt	Q92819
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:25 Flow Cytometry : 1:25 (1x10e6 cells)
Limitations	This Hyaluronan synthase 2 antibody is available for research use only.



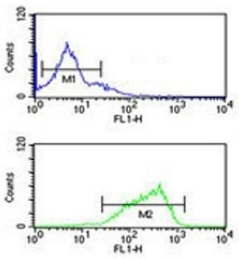
IHC testing of FFPE human kidney tissue with Hyaluronan synthase 2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human brain tissue with Hyaluronan synthase 2 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Western blot testing of mouse heart lysate with Hyaluronan synthase 2 antibody. Predicted molecular weight ~64 kDa.



Flow cytometry testing of human K562 cells with Hyaluronan synthase 2 antibody; Blue=isotype control, Green= Hyaluronan synthase 2 antibody.

Description

Hyaluronan or hyaluronic acid (HA) is a high molecular weight unbranched polysaccharide synthesized by a wide variety of organisms from bacteria to mammals, and is a constituent of the extracellular matrix. It consists of alternating glucuronic acid and N-acetylglucosamine residues that are linked by beta-1-3 and beta-1-4 glycosidic bonds. HA is synthesized by membrane-bound synthase at the inner surface of the plasma membrane, and the chains are extruded through pore-like structures into the extracellular space. It serves a variety of functions, including space filling, lubrication of joints, and provision of a matrix through which cells can migrate. HA is actively produced during wound healing and tissue repair to provide a framework for ingrowth of blood vessels and fibroblasts. Changes in the serum concentration of HA are associated with inflammatory and degenerative arthropathies such as rheumatoid arthritis. In addition, the interaction of HA with the leukocyte receptor CD44 is important in tissue-specific homing by leukocytes, and overexpression of HA receptors has been correlated with tumor metastasis. HAS2 is a member of the newly identified vertebrate gene family encoding putative hyaluronan synthases, and its amino acid sequence shows significant homology to glycosaminoglycan synthetase (DG42) from Xenopus laevis, and human and murine hyaluronan synthase 1.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Hyaluronan synthase 2 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 138-166 from the human protein was used as the immunogen for the Hyaluronan synthase 2 antibody.

Storage

Aliquot the Hyaluronan synthase 2 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.