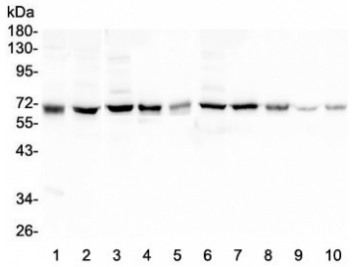
HAS1 Antibody / Hyaluronan synthase 1 (RQ4648)

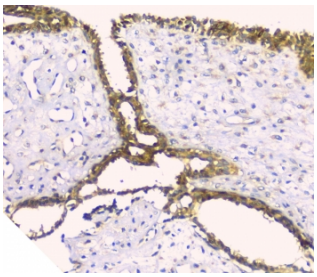
Catalog No.	Formulation	Size
RQ4648	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

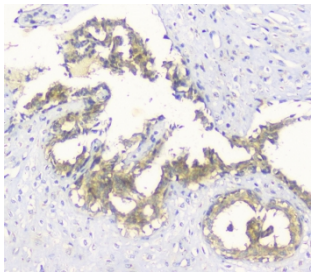
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q92839
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 1-2ug/ml Immunofluorescence/Immunocytochemistry: 2-4ug/ml
Limitations	This HAS1 antibody is available for research use only.



Western blot testing of 1) human SHG-44, 2) human ThP-1, 3) rat brain, 4) rat smooth muscle, 5) rat ovary, 6) mouse brain, 7) mouse smooth muscle, 8) mouse ovary, 9) mouse small intestine and 10) mouse Neuro-2a lysate with HAS1 antibody at 0.5ug/ml. Predicted molecular weight ~63 kDa.



IHC staining of FFPE human breast cancer with HAS1 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



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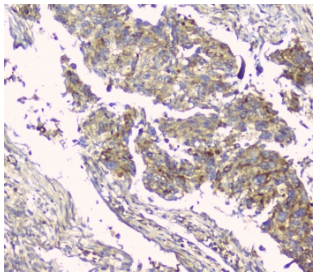
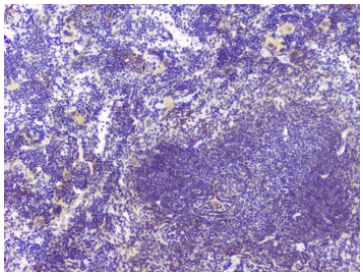
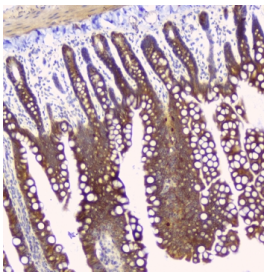


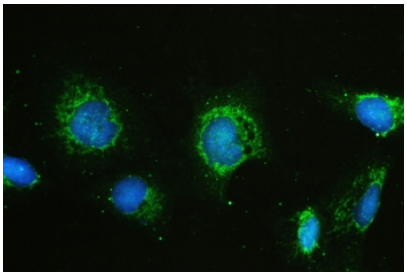
IHC staining of FFPE human lung cancer with HAS1 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE mouse spleen with HAS1 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IHC staining of FFPE rat small intestine with HAS1 antibody at 1ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min and allow to cool before testing.



IF/ICC staining of FFPE human U-2 OS cells with HAS1 antibody (green) at 2ug/ml and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

Hyaluronan synthase 1 is an enzyme that in humans is encoded by the HAS1 gene. This gene is mapped to 19q13.41. 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. 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. AS1 is a member of the newly identified vertebrate gene family encoding putative hyaluronan synthases, and

its amino acid sequence shows significant homology to the hasA gene product of Streptococcus pyogenes, a glycosaminoglycan synthetase (DG42) from Xenopus laevis, and a recently described murine hyaluronan synthase.

Application Notes

Optimal dilution of the HAS1 antibody should be determined by the researcher.

Immunogen

Amino acids NRAEDLYMVDMFREVFADEDPATYVWDGNYHQPWEPA were used as the immunogen for the HAS1 antibody.

Storage

After reconstitution, the HAS1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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