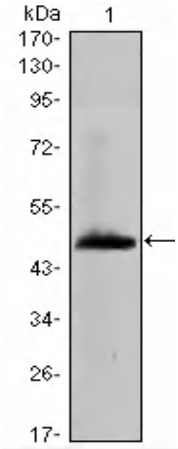
HAS1 Monoclonal Antibody

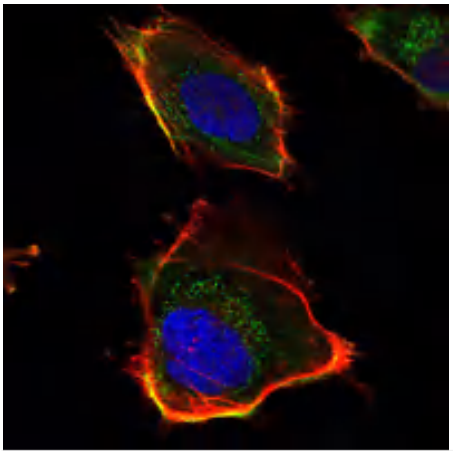
Catalog No	YP-Ab-03400
Isotype	IgG
Reactivity	Human
Applications	WB;IF;ELISA
Gene Name	HAS1
Protein Name	Hyaluronan synthase 1
Immunogen	Purified recombinant fragment of human HAS1 expressed in E. Coli.
Specificity	HAS1 Monoclonal Antibody detects endogenous levels of HAS1 protein.
Formulation	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Cell Pathway	cytoplasm,plasma membrane,integral component of plasma membrane,integral component of membrane,
Tissue Specificity	Fetal brain,Lymph node,Ovary,
Function	catalytic activity:UDP-alpha-D-glucuronate + N-acetyl-beta-D-glucosaminyl-(1->4)-beta-D-glucuronosyl-(1->3)-(nascent hyaluronan) = UDP + beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-glucosaminyl-(1->4)-beta-D-glucuronosyl-(1->3)-(nascent hyaluronan).,catalytic activity:UDP-alpha-N-acetyl-D-glucosamine + beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-glucosaminyl-(1->4)-(nascent hyaluronan) = UDP + N-acetyl-beta-D-glucosaminyl-(1->4)-beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-glucosaminyl-(1->4)-(nascent hyaluronan).,cofactor:Magnesium.,function:Plays a role in hyaluronan/hyaluronic acid (HA) synthesis. Also able to catalyze the synthesis of chito-oligosaccharide depending on the substrate.,online information:GlycoGene database,pathway:Glycan biosynthesis; hyaluronan biosynthesis.,similarity:Belongs to the nodC/HAS family.,tissue specificity:Highly expressed in ovary followed by spleen, thymus,

Background	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 rheuma
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using HAS1 Monoclonal Antibody against recombinant protein of human HAS1 (aa70-243).



Immunofluorescence analysis of U251 cells using HAS1 Monoclonal Antibody (green). Red: Actin filaments have been labeled with DY-554 phalloidin. Blue: DRAQ5 fluorescent DNA dye.