

Anti-HAS1 Antibody

Catalog # AP95852

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q92839
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	64704

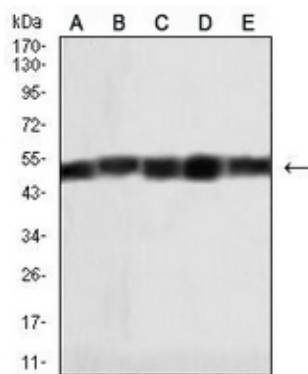
Additional Information

Gene ID	3036
Other Names	HAS; Hyaluronan synthase 1; Hyaluronate synthase 1; HyaluronIC, acid synthase 1; HA synthase 1; HuHAS1
Target/Specificity	Recombinant fusion protein of human HAS1 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

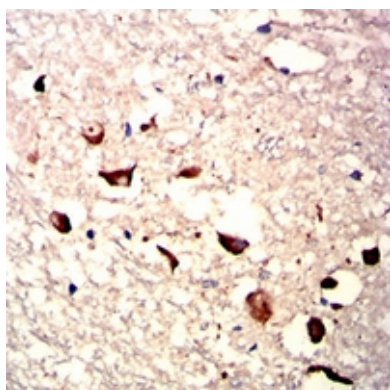
Protein Information

Name	HAS1
Synonyms	HAS
Function	Catalyzes the addition of GlcNAc or GlcUA monosaccharides to the nascent hyaluronan polymer. Therefore, it is essential for the synthesis of hyaluronan, a major component of most extracellular matrices that has a structural role in tissue architecture and regulates cell adhesion, migration and differentiation. This is one of the isozymes catalyzing that reaction. Also able to catalyze the synthesis of chito-oligosaccharide depending on the substrate (By similarity).
Cellular Location	Membrane; Multi-pass membrane protein
Tissue Location	Widely expressed. Highly expressed in ovary followed by spleen, thymus, prostate, testes and large intestine Weakly expressed in small intestine.

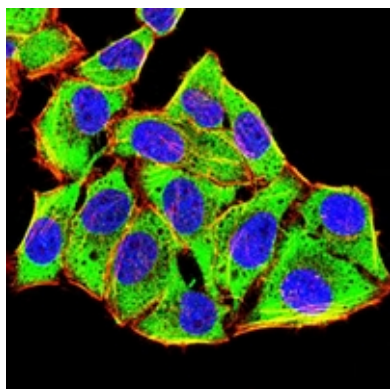
Images



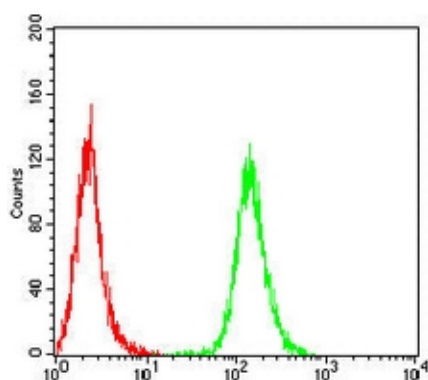
Western blot analysis of HAS1 expression in SKBR3 (A), SKOV3 (B), CHO (C), SW480 (D), HeLa (E) whole cell lysates. (Predicted band size: 65 kD; Observed band size: 50 kD)



Immunohistochemical analysis of HAS1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of HAS1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HeLa cells using Anti-HAS1 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.