10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-HYAL1 Antibody

Catalog # ABO11490

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	Q12794
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Hyaluronidase-1(HYAL1) detection. Tested with WB, IHC-P, IHC-F, ICC in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	3373
Other Names	Hyaluronidase-1, Hyal-1, 3.2.1.35, Hyaluronoglucosaminidase-1, Lung carcinoma protein 1, LuCa-1, HYAL1, LUCA1
Calculated MW	48368
Application Details	Immunocytochemistry , 0.5-1 □g/ml, Human, - Immunohistochemistry(Frozen Section), 0.5-1 □g/ml, Human, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human
Subcellular Localization	Secreted . Lysosome .
Tissue Specificity	Highly expressed in the liver, kidney and heart. Weakly expressed in lung, placenta and skeletal muscle. No expression detected in adult brain. Isoform 1 is expressed only in bladder and prostate cancer cells, G2/G3 bladder tumor tissues and lymph node specimens showing tumor invasive tumors cells. Isoform 3, isoform 4, isoform 5 and isoform 6 are expressed in normal bladder and bladder tumor tissues. .
Source	Eukaryota
Protein Name	Hyaluronidase-1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human

	HYAL1(32-47aa FTTVWNANTQWCLERH).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the glycosyl hydrolase 56 family.

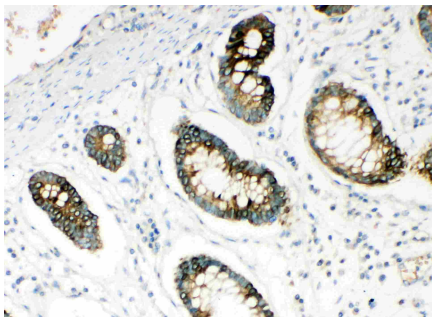
Protein Information

Name	HYAL1
Synonyms	LUCA1
Function	May have a role in promoting tumor progression. May block the TGFB1-enhanced cell growth.
Cellular Location	Secreted. Lysosome
Tissue Location	Highly expressed in the liver, kidney and heart. Weakly expressed in lung, placenta and skeletal muscle. No expression detected in adult brain. Isoform 1 is expressed only in bladder and prostate cancer cells, G2/G3 bladder tumor tissues and lymph node specimens showing tumor invasive tumors cells. Isoform 3, isoform 4, isoform 5 and isoform 6 are expressed in normal bladder and bladder tumor tissues.

Background

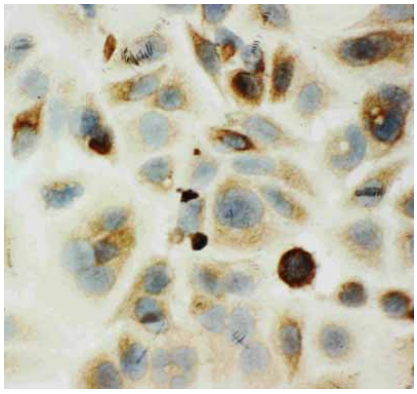
Hyaluronidase-1, also known as HYAL1 or LUCA1, is an enzyme that in humans is encoded by the HYAL1 gene. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. This gene encodes a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is though to be involved in cell proliferation, migration and differentiation. This enzyme is active at an acidic pH and is the major hyaluronidase in plasma. Mutations in this gene are associated with mucopolysaccharidosis type IX, or hyaluronidase deficiency.

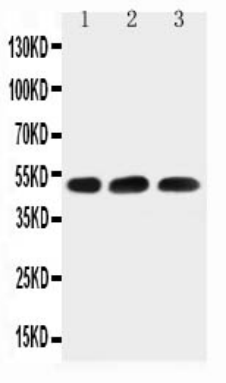
Images



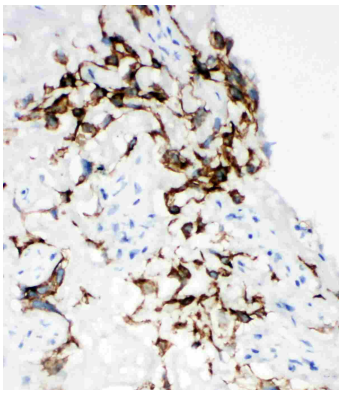
Anti-HYAL1 antibody, ABO11490, IHC(P)IHC(P): Human Intestinal Cancer Tissue

Anti-HYAL1 antibody, ABO11490, ICCICC: MCF-7 Cell





Anti-HYAL1 antibody, ABO11490, Western blottingLane 1: HELA Cell LysateLane 2: 22RV1 Cell LysateLane 3: MCF-7 Cell Lysate



Anti-HYAL1 antibody, ABO11490, IHC(F)IHC(F): Human Placenta Tissue