10320 Camino Santa Fe, Suite G
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Anti-HYAL1 Antibody
Catalog # ABO11490

Specification

Anti-HYAL1 Antibody - 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.

Anti-HYAL1 Antibody - 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 MW KDa

Application Details
Immunocytochemistry , 0.5-1 µg/ml, Human, -
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, -
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/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. .

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.

Anti-HYAL1 Antibody - 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.

Anti-HYAL1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-HYAL1 Antibody - Images

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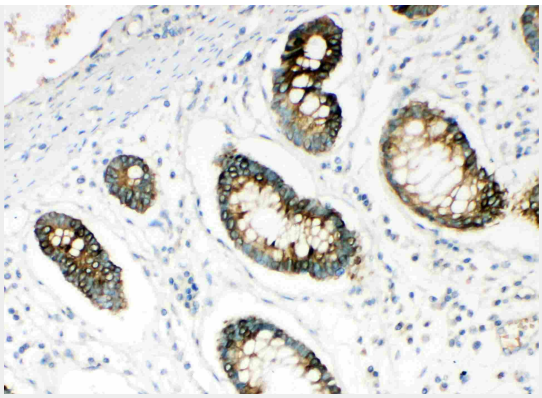
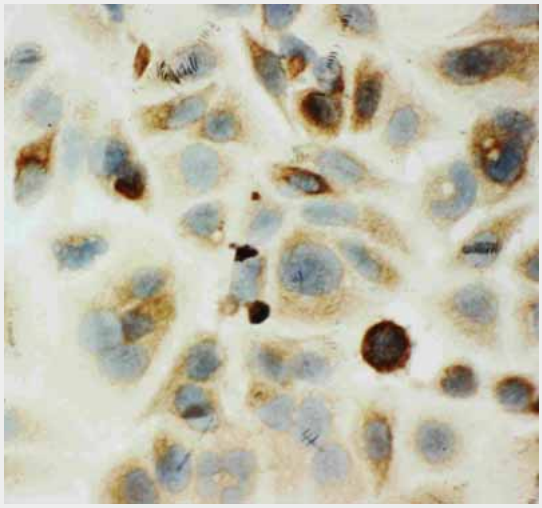


Anti-HYAL1 antibody, ABO11490, IHC(P)IHC(P): Human Intestinal Cancer Tissue



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

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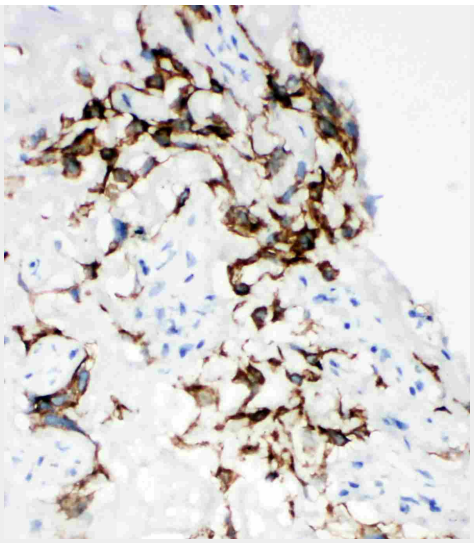

Anti-HYAL1 antibody, ABO11490, IHC(F)IHC(F): Human Placenta Tissue

Anti-HYAL1 Antibody - 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.