

Anti-HYAL2 Antibody

Catalog # ABO11125

Specification

Anti-HYAL2 Antibody - Product Information

ApplicationWBPrimary Accession012891HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Hyaluronidase-2(HYAL2) detection. Tested with WB inHuman; Mouse; Rat. .Human (Hyaluronidase-2(HYAL2))

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-HYAL2 Antibody - Additional Information

Gene ID 8692

Other Names Hyaluronidase-2, Hyal-2, 3.2.1.35, Hyaluronoglucosaminidase-2, Lung carcinoma protein 2, LuCa-2, HYAL2, LUCA2

Calculated MW 53860 MW KDa

Application Details Western blot, 0.1-0.5 μg/ml, Human, Rat, Mouse

Subcellular Localization Cell membrane ; Lipid-anchor, GPI-anchor .

Tissue Specificity Widely expressed. No expression detected in adult brain. .

Protein Name Hyaluronidase-2(Hyal-2)

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 C-terminus of human HYAL2(142-157aa VRNWQDKDVYRRLSRQ), different from the related mouse and rat sequences by three amino acids.

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-HYAL2 Antibody - Protein Information

Name HYAL2

Synonyms LUCA2

Function

Catalyzes hyaluronan degradation into small fragments that are endocytosed and degraded in lysosomes by HYAL1 and exoglycosidases (PubMed:9712871). Essential for the breakdown of extracellular matrix hyaluronan (PubMed:28081210).

Cellular Location Cell membrane; Lipid-anchor, GPI-anchor

Tissue Location Widely expressed (at protein level).

Anti-HYAL2 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-HYAL2 Antibody - Images



Anti-HYAL2 antibody, ABO11125, Western blottingAll lanes: Anti HYAL2 (ABO11125) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: SMMC Whole Cell Lysate at 40ugLane 3: COLO320 Whole Cell Lysate at 40ugLane 4: MCF-7 Whole Cell Lysate at 40ugLane 5: HT1080 Whole Cell Lysate at 40ugPredicted bind size: 54KDObserved bind size: 54KD

Anti-HYAL2 Antibody - Background

HYAL2(hyaluronoglucosaminidase 2) also known as hyaluronidase 2, LuCa-2, is an enzyme that in humans is encoded by the HYAL2Â gene. HYAL2Â cDNAs encode a preprotein with an N-terminal signal peptide. Northern blot analysis indicated that HYAL2Â was expressed in all human tissues tested except adult brain, and Western blot analysis detected Hyal2protein in all mouse tissues examined except adult brain. The HYAL2 gene is mapped on 3p21.31. HYAL2Â is a glycosylphosphatidylinositol(GPI)-anchored protein on the cell surface and serves as a receptor for entry into the cell of the jaagsiekte sheep retrovirus(JSRV). The findings of Rai et al.(2001) that HYAL2Â is a GPI-anchored protein on the cell surface showed that GFP would likely be cleaved from HYAL2 during GPI addition, leaving HYAL2Â on the cell surface and resulting in GFP transit to the lysosome for degradation.