Datasheet for ABIN2784343

anti-HYAL1 antibody (N-Term)

1 Validation

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Overview

Quantity:	100 µL
Target:	HYAL1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HYAL1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human HYAL1
Sequence:	TIFYSSQLGT YPYYTPTGEP VFGGLPQNAS LIAHLARTFQ DILAAIPAPD
Predicted Reactivity:	Cow: 86%, Dog: 85%, Guinea Pig: 86%, Horse: 93%, Human: 100%, Mouse: 92%, Rabbit: 93%, Rat: 92%
Characteristics:	This is a rabbit polyclonal antibody against HYAL1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	HYAL1

Target Details

Alternative Name:	HYAL1 (HYAL1 Products)
Background:	HYAL1 is a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is thought 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. This gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. Multiple transcript variants encoding different isoforms have been found for this gene.This gene encodes a lysosomal hyaluronidase. Hyaluronidases intracellularly degrade hyaluronan, one of the major glycosaminoglycans of the extracellular matrix. Hyaluronan is thought 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. The gene is one of several related genes in a region of chromosome 3p21.3 associated with tumor suppression. Multiple transcript variants encoding different isoforms have been found for this gene. Alias Symbols: HYAL-1, LUCA1, MGC45987, NAT6 Protein Interaction Partner: UBC, COL2A1, Protein Size: 435
Molecular Weight:	45 kDa
Gene ID:	3373
NCBI Accession:	NM_153282, NP_695014
UniProt:	Q12794
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 435 AA
Restrictions:	For Research Use only

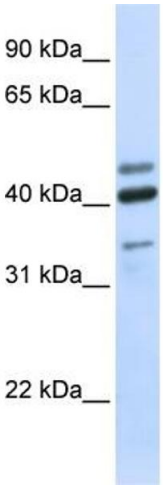
Handling

Format:	Liquid
Concentration:	Lot specific

Handling

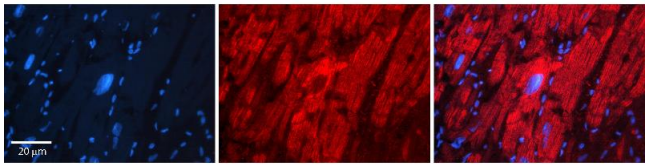
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Validation report #103398 for Immunocytochemistry (ICC)



Western Blotting

Image 1. WB Suggested Anti-HYAL1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human brain



Immunohistochemistry

Image 2. Rabbit Anti-HYAL1 Antibody Formalin Fixed Paraffin Embedded Tissue: Human heart Tissue Observed Staining: Cytoplasmic Primary Antibody Concentration: 1:100 Other Working Concentrations: N/A Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec

Validation report #100034 for Immunohistochemistry (IHC)

Successfully validated (Immunohistochemistry (IHC))

by University of Manitoba, Max Rady College of Medicine Biochemistry and Medical Genetics, Department of Biochemistry and Medical Genetics

Report Number: 100034

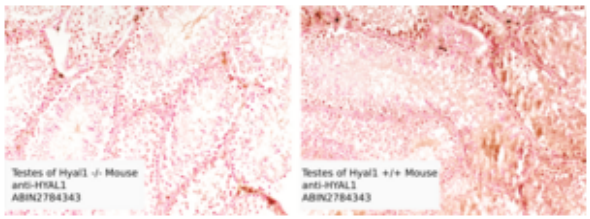
Date: Aug 16 2016

Target:	HYAL1 antibody - N-terminal region
Lot Number:	QC23783
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Testes of Hyal1 +/+ mouse
Negative Control:	Testes of Hyal1 -/- mouse
Notes:	ABIN2784343 does detect mouse HYAL1 by immunohistochemistry in paraffin sections. The immunohistochemistry is based on increased signal in wild type mouse testes compared to Hyal1-/- mouse testes.
Primary Antibody:	ABIN2784343
Secondary Antibody:	Goat-anti-rabbit AF568
Protocol:	Deparafinize and rehydrate: • xylene (I & II) – 2x 5min • 100% Ethanol (I & II) – 2x 5min • 95% Ethanol (I & II) – 2x 3min • 70% Ethanol (I) – 3min • 50% Ethanol (I) – 3min • ddH_2O – 3min Antigen retrieval: • Immerse slides in citrate buffer (10mM Sodium citrate at pH6.0) preheated to 95°C. • Incubate at 95°C for 20min. • Cool down at RT for 20min. • Wash twice with PBS for 5min. Immunostaining: • Block in blocking solution (prepare 3% BSA in TBST) at RT for 60min. • Incubate sections with primary Hyaluronidase-1 (HYAL1) (N-Term) antibody ABIN2784343 diluted 1:200 in blocking solution. • Incubate at 4°C overnight. • Wash slides three times with TBST 5min. • Incubate sections with goat-anti-rabbit AF568 secondary antibody conjugate diluted 1:500

in blocking solution.

- Incubate at RT for 1h.
- Wash slides in TBST - 1x 5min at RT.
- Wash three times with H_2O for 5min.
- Incubated in Hoechst solution diluted 1:100.000 for 8-9min.
- Wash twice with H_2O for 5min.
- Mounted with ProLong Gold (ThermoFisher, P36931) solution.

Image for Validation report #100034



Validation image no. 1 for anti-Hyaluronidase-1 (HYAL1) (N-Term) antibody (ABIN2784343)

Testes of Hyal1 -/- mouse (A) or Hyal1 +/+ mouse (B) stained with ABIN2784342 as described in the protocol.