

Datasheet for ABIN2783487  
**anti-HS2ST1 antibody (N-Term)**



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1 Image

## Overview

Quantity:	100 µL
Target:	HS2ST1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Rabbit, Zebrafish (Danio rerio), Horse, Pig, Cow, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HS2ST1 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human HS2ST1
Sequence:	GLLRIMMPPK LQLLAVVAFA VAMLFLENQI QKLEESRSKL ERAIARHEVR
Predicted Reactivity:	Cow: 77%, Dog: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against HS2ST1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	HS2ST1
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## Target Details

Alternative Name: HS2ST1 ([HS2ST1 Products](#))

Background: Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. HS2ST1 is a member of the heparan sulfate biosynthetic enzyme family that transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of this gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation. Two alternatively spliced transcript variants that encode different proteins have been found for this gene. Western blots using two different antibodies against two unique regions of this protein target confirm the same apparent molecular weight in our tests. Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. This gene encodes heparan sulfate 2-O-sulfotransferase, a member of the heparan sulfate biosynthetic enzyme family. This family member transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of this gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation.

Alias Symbols: FLJ11317, KIAA0448, MGC131986, dJ604K5.2

Protein Size: 356

Molecular Weight: 42 kDa

Gene ID: 9653

NCBI Accession: [NM\\_012262](#), [NP\\_036394](#)

UniProt: [Q7LGA3](#)

Pathways: [Glycosaminoglycan Metabolic Process](#), [Tube Formation](#), [SARS-CoV-2 Protein Interactome](#)

## Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 356 AA

Restrictions: For Research Use only

## Handling

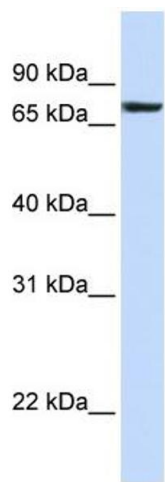
Format: Liquid

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.

Images



Western Blotting

**Image 1.** WB Suggested Anti-HS2ST1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 721\_B cell lysate HS2ST1 is strongly supported by BioGPS gene expression data to be expressed in Human 721\_B cells