

## **Product datasheet for TA330989**

## **HS3ST5 Rabbit Polyclonal Antibody**

## **Product data:**

**Product Type:** Primary Antibodies

Applications: WB

Recommended Dilution: WB

Reactivity: Human

Host: Rabbit

**Isotype:** IgG

Clonality: Polyclonal

**Immunogen:** The immunogen for anti-HS3ST5 antibody: synthetic peptide directed towards the C terminal

of human HS3ST5. Synthetic peptide located within the following region:

SQYNLYFNATRGFYCLRFNIIFNKCLAGSKGRIHPEVDPSVITKLRKFFH

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose.

Note that this product is shipped as lyophilized powder to China customers.

**Purification:** Affinity Purified

**Conjugation:** Unconjugated

**Store** at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

Predicted Protein Size: 40 kDa

**Gene Name:** heparan sulfate-glucosamine 3-sulfotransferase 5

Database Link: NP 705840

Entrez Gene 222537 Human

Q8IZT8



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**Background:** HS3ST5 is the rate limiting enzyme for synthesis of HSact. It performs the crucial step

modification in the biosynthesis of anticoagulant heparan sulfate (HSact) that is to complete the structure of the antithrombin pentasaccharide binding site. HS3ST5 also generates GlcUA-GlcNS or IdoUA-GlcNS and IdoUA2S-GlcNH2. The substrate-specific O-sulfation generates an enzyme-modified heparan sulfate which acts as a binding receptor to Herpes simplex virus-1 (HSV 1) and permits its option HS3ST5 belongs to a group of heparan sulfate 3.0

(HSV-1) and permits its entry. HS3ST5 belongs to a group of heparan sulfate 3-O-sulfotransferases (EC 2.8.2.23) that transfer sulfate from 3-prime-phosphoadenosine 5-prime

phosphosulfate (PAPS) to heparan sulfate and heparin (Mochizuki et al., 2003 [PubMed 12740361]). [supplied by OMIM]. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. PRIMARYREFSEQ\_SPAN PRIMARY\_IDENTIFIER PRIMARY\_SPAN COMP 1-139 AL355498.10

32491-32629 c 140-2744 AL355498.10 25338-27942 c

**Synonyms:** 3-OST-5; 3OST5; HS3OST5; NBLA04021

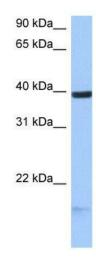
**Note:** Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%;

Rabbit: 100%; Guinea pig: 100%

**Protein Families:** Transmembrane

**Protein Pathways:** Heparan sulfate biosynthesis

## **Product images:**



WB Suggested Anti-HS3ST5 Antibody Titration: 0.2-1 ug/ml; Positive Control: MCF7 cell lysate