

RPB966Ra01 100µg
Recombinant Syndecan 1 (SDC1)
Organism Species: Rattus norvegicus (Rat)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

9th Edition (Revised in Jul, 2013)

[**PROPERTIES**]

Residues: Ser58~Ala313 (Accession # P26260),
with two N-terminal Tags, His-tag and GST-tag.

Host: *E. coli*

Subcellular Location: Membrane; Single-pass
type I membrane protein.

Purity: >95%

Endotoxin Level: <1.0EU per 1µg
(determined by the LAL method).

Formulation: Supplied as lyophilized form in PBS,
pH7.4, containing 5% sucrose, 0.01% sarcosyl.

Predicted isoelectric point: 5.2

Predicted Molecular Mass: 59.1kDa

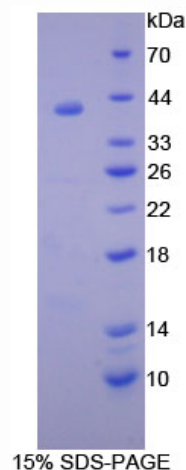
Accurate Molecular Mass: 42kDa as determined by SDS-PAGE reducing conditions.

Applications: SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

Note: The possible reasons that the actual band size differs from the predicted are as follows:

1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
2. Relative charge: The composition of amino acids may affects the charge of the protein.
3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
5. Polymerization of the target protein: Dimerization, multimerization etc.



[USAGE]

Reconstitute in sterile PBS, pH7.2-pH7.4.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCES]

The target protein is fused with two N-terminal Tags, His-tag and GST-tag, its sequence is listed below.

MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID
GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV
DFLSKLP EML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK
KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPKSD GSTSGSGHHH HHHSAGLVPR
GSTAIGMKET AAKFERQHM DSPDLGTLEV LFQGPLGSEF- SRQ TPSTWKDVWL
LTATPTAPEP TSRDTEATLT SILPAGEKPE EGEPVAHVEA EPDFTARDKE KEATTRPRET
TQLPVTQQAS TAARATTAQA SVTSHPHGDV QPGLHETLAP TAPGQPDHQP PSVEDGGTSV
IKEVVEDETT NQLPAGEGSG EQDFTFETSG ENTAVAGVEP DLRNQSPVDE GATGASQGLL
DRKEVLGGVI AGGLVGLIFA VCLVAFMLYR MKKKDEGSYS LEEPQKANGG AYQKPTKQEE
FYA

[REFERENCES]

1. Cizmeci-Smith G., *et al.* (1992) J. Biol. Chem. 267:15729-15736.
2. Worapamorn W., *et al.* (2001) Connect. Tissue Res. 42:39-48.
3. Sanderson R.D., Borset M. (2002) Ann. Hematol. 81:125-135.
4. Brucato S., *et al.* (2002) Eur. J. Biochem. 269:3461-3469.