SANTA CRUZ BIOTECHNOLOGY, INC.

PPBPL1 siRNA (h): sc-89165

BACKGROUND

The small inducible genes (SIG) family encodes proteins that are involved in overlapping processes of inflammation, immune response, wound repair and coagulation. The SIG family contains two branches, designated CXC and CC, distinguished by whether or not the first two of four conserved cysteine residues are separated by an additional amino acid residue. The CXC SIGs map to human chromosome 4q13.3, including those encoding β-thromboglobulin and platelet factor 4 (PF4), which are both expressed by megakaryocytes in a tissue-specific fashion and duplicated, there being a PF4 and a PF4alt gene, and a β TG1 and β TG2 gene. PPBPL1 (pro-platelet basic protein-like 1), also known as TGB2 (thromboglobulin, β-2), belongs to the SIG family and is a CXC SIG protein, which contains four cysteine residues separated by a single amino acid residue. PPBPL1 is closely linked to other PPBPs, PF4s and several other CXC SIGs in a 700-kb Sfi1 fragment that localizes to chromosome 4q13.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PPBPL1 (human) mapping to 4q13.3.

PRODUCT

PPBPL1 siRNA (h) is a pool of 2 target-specific 19-25 nt siRNAs designed to knock down gene expression. Each vial contains 3.3 nmol of lyophilized siRNA, sufficient for a 10 µM solution once resuspended using protocol below. Suitable for 50-100 transfections. Also see PPBPL1 shRNA Plasmid (h): sc-89165-SH and PPBPL1 shRNA (h) Lentiviral Particles: sc-89165-V as alternate gene silencing products.

For independent verification of PPBPL1 (h) gene silencing results, we also provide the individual siRNA duplex components. Each is available as 3.3 nmol of lyophilized siRNA. These include: sc-89165A and sc-89165B.

STORAGE AND RESUSPENSION

Store lyophilized siRNA duplex at -20° C with desiccant. Stable for at least one year from the date of shipment. Once resuspended, store at -20° C, avoid contact with RNAses and repeated freeze thaw cycles.

Resuspend lyophilized siRNA duplex in 330 µl of the RNAse-free water provided. Resuspension of the siRNA duplex in 330 µl of RNAse-free water makes a 10 µM solution in a 10 µM Tris-HCl, pH 8.0, 20 mM NaCl, 1 mM EDTA buffered solution.

APPLICATIONS

PPBPL1 siRNA (h) is recommended for the inhibition of PPBPL1 expression in human cells.

SUPPORT REAGENTS

For optimal siRNA transfection efficiency, Santa Cruz Biotechnology's siRNA Transfection Reagent: sc-29528 (0.3 ml), siRNA Transfection Medium: sc-36868 (20 ml) and siRNA Dilution Buffer: sc-29527 (1.5 ml) are recommended. Control siRNAs or Fluorescein Conjugated Control siRNAs are available as 10 µM in 66 µl. Each contain a scrambled sequence that will not lead to the specific degradation of any known cellular mRNA. Fluorescein Conjugated Control siRNAs include: sc-36869, sc-44239, sc-44240 and sc-44241. Control siRNAs include: sc-37007, sc-44230, sc-44231, sc-44232, sc-44233, sc-44234, sc-44235, sc-44236, sc-44237 and sc-44238.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.