

Pegasus (1B6): sc-517137

BACKGROUND

Ikaros family members, including Ikaros and Helios, are nuclear factors that colocalize with DNA replication machinery components in higher-order chromatin structures and respond to signaling events, such as T cell activation. Helios and Ikaros bind to similar DNA sequences and they function as hemopoietic-specific transcription factors. Members of the Ikaros family contain zinc-finger domains that are involved in DNA-binding and in the formation of homodimers and heterodimers between Ikaros family members. Pegasus, also known as zinc finger protein Ikaros 5, is a 419 amino acid transcriptional repressor. Localized to the nucleus, Pegasus binds to the 5'GNNTGTNG-3' DNA core sequence. Pegasus contains five C₂H₂-type zinc finger domains. The C-terminal zinc finger domains participate in homodimerization and the N-terminal domains participate in heterodimerization with Ikaros family members and DNA binding. Pegasus is expressed in many tissues including kidney, heart, skeletal muscle, brain and liver.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IKZF5 (human) mapping to 10q26.13; Ikaros (mouse) mapping to 7 F3.

SOURCE

Pegasus (1B6) is a mouse monoclonal antibody raised against amino acids 2-100 representing partial length Pegasus of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Pegasus (1B6) is recommended for detection of Pegasus of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Pegasus siRNA (h): sc-90477, Pegasus siRNA (m): sc-146200, Pegasus shRNA Plasmid (h): sc-90477-SH, Pegasus shRNA Plasmid (m): sc-146200-SH, Pegasus shRNA (h) Lentiviral Particles: sc-90477-V and Pegasus shRNA (m) Lentiviral Particles: sc-146200-V.

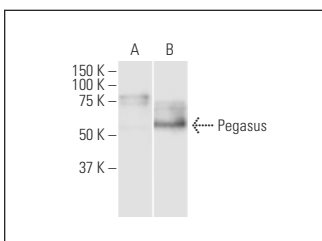
Molecular Weight of Pegasus: 47 kDa.

Positive Controls: Pegasus transfected 293T whole cell lysate.

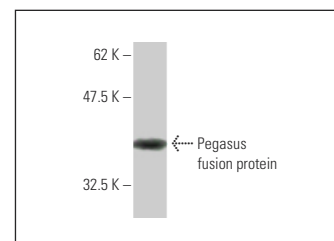
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



Pegasus (1B6): sc-517137. Western blot analysis of Pegasus expression in non-transfected (A) and Pegasus transfected (B) 293T whole cell lysates.



Pegasus (1B6): sc-517137. Western blot analysis of human recombinant Pegasus fusion protein.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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.