

Pegasus (H-220): sc-292487

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.

CHROMOSOMAL LOCATION

Genetic locus: IKZF5 (human) mapping to 10q26.13; Ikzf5 (mouse) mapping to 7 F3.

SOURCE

Pegasus (H-220) is a rabbit polyclonal antibody raised against amino acids 163-382 mapping near the C-terminus of Pegasus of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Pegasus (H-220) 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Pegasus (H-220) is also recommended for detection of Pegasus in additional species, including equine, canine, bovine, porcine and avian.

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.

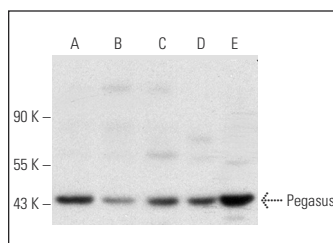
Molecular Weight of Pegasus: 47 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Sol8 nuclear extract: sc-2157 or KNRK nuclear extract: sc-2141.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), 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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Pegasus (H-220): sc-292487. Western blot analysis of Pegasus expression in MOLT-4 (A) and K-562 (B) whole cell lysates and HeLa (C), Sol8 (D) and KNRK (E) nuclear extracts.

RESEARCH USE

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

PROTOCOLS

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



Try **Pegasus (1B6): sc-517137**, our highly recommended monoclonal alternative to Pegasus (H-220).