

Pegasus (E-12): sc-131948

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 hematopoietic-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; Ikzf5 (mouse) mapping to 7F3.

SOURCE

Pegasus (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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.

Blocking peptide available for competition studies, sc-131948 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-131948 X, 200 µg/0.1 ml.

APPLICATIONS

Pegasus (E-12) 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), 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); non cross-reactive with other Ikaros family members.

Pegasus (E-12) is also recommended for detection of Pegasus in additional species, including equine, canine and porcine.

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.

Pegasus (E-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of Pegasus: 47 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.