BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-ZSCAN4 Antibody

Catalog Number: A13391

About ZSCAN4

Zytotic genome activation (ZGA) is the first and most critical transition event from the maternal genetic to the embryonic genetic program and the major burst of ZGA occurs only in the late 2-cell stage. ZSCAN4 encodes a SCAN domain and four zinc finger domains and is expressed in late 2-cell embryos and embryonic stem cells. Loss-of-function studies using siRNA shows delays in the progression from the 2-cell to the 4-cell stage and subsequent embryo development. ZSCAN4 plays an important role in the preimplantation development. Also, ZSCAN4 is involved in telomere maintenance and long term genomic stability in ES cells, suggesting that ZSCAN4 may be of critical importance in maintaining pluripotency in replicating stem cells.

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Overview

Product Name	Anti-ZSCAN4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ZSCAN4 Antibody (Catalog # A13391). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	ZSCAN4 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	ZSCAN4 antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q8NAM6

Technical Details

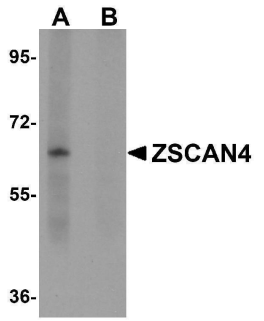
Immunogen	ZSCAN4 antibody was raised against an 18 amino acid synthetic peptide near the carboxy terminus of human ZSCAN4. The immunogen is located within amino acids 370 - 420 of ZSCAN4.
Predicted Reactive Species	Bovine, Chicken

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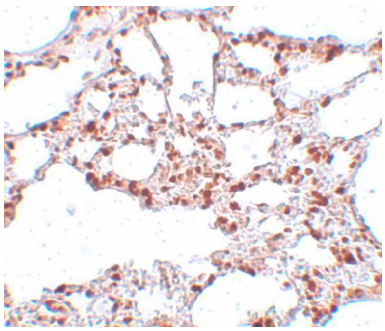
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	ZSCAN4 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	ZSCAN4 antibody can be used for detection of ZSCAN4 by Western blot. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in mouse samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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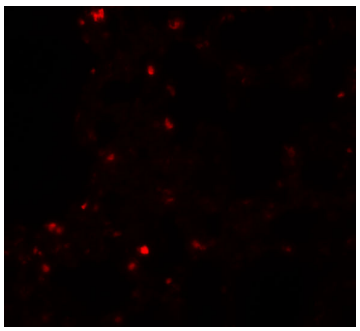
Anti-ZSCAN4 Antibody (A13391) Images



Western blot analysis of ZSCAN4 in mouse lung tissue lysate with ZSCAN4 antibody in (A) the absence and (B) presence of blocking peptide.



Immunohistochemistry of ZSCAN4 in rat lung tissue with ZSCAN4 antibody at 5 ug/mL.



Immunofluorescence of ZSCAN4 in Rat Lung tissue with ZSCAN4 antibody at 20 ug/mL.

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