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Datasheet for ABIN6991278 **anti-ZSCAN4 antibody (C-Term)**

Overview

Quantity:	0.1 mg
Target:	ZSCAN4
Binding Specificity:	AA 370-420, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ZSCAN4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product 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.
Isotype:	IgG
Purification:	ZSCAN4 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	ZSCAN4
Alternative Name:	ZSCAN4 (ZSCAN4 Products)
Background:	ZSCAN4 Antibody: Zytotic genome activation (ZGA) is the first and most critical transition event

Target Details

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.

Molecular Weight: Predicted: 48 kDa

Observed: 64 kDa

Gene ID: 201516

NCBI Accession: [NP_689890](#)

UniProt: [Q8NAM6](#)

Application Details

Application Notes: ZSCAN4 antibody can be used for detection of ZSCAN4 by Western blot. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/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.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: ZSCAN4 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C, 4 °C

Storage Comment: ZSCAN4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.