

Product datasheet for **TA306927**

ZSCAN4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ZSCAN4 antibody was raised against a 18 amino acid peptide near the carboxy terminus of human ZSCAN4.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	zinc finger and SCAN domain containing 4
Database Link:	NP_689890.1 Entrez Gene 201516 Human Q8NAM6



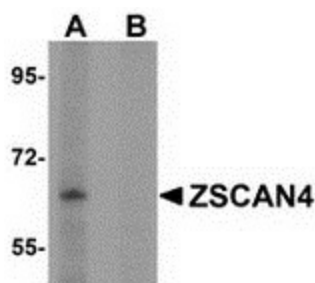
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Background:

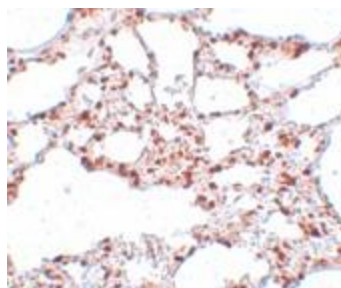
Zytotic genome activation (ZGA) is the first and most critical transition event from the maternal genetic to the embryonic genetic program and the major burst of ZGA occurs only in the late 2-cell stage. ZSCAN4 encodes a SCAN domain and four zinc finger domains and is expressed in late 2-cell embryos 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.

Synonyms:

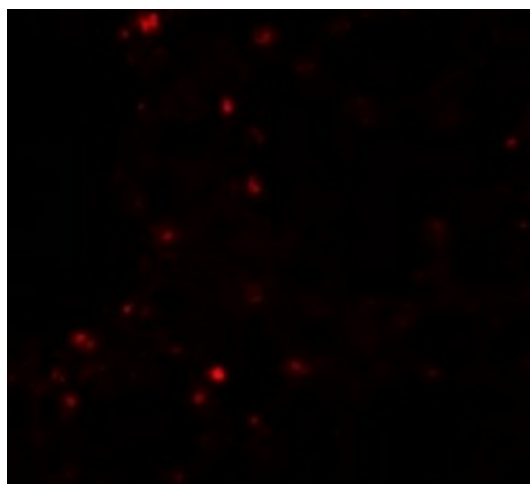
ZNF494

Product images:


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



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.