10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ZFP42 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1816a

Specification

ZFP42 Antibody - Product Information

Application	**WB, IHC, FC, E**
Primary Accession	Q96MM3
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**34.8kDa KDa**

Description
ZFP42 involved in the reprogramming of X-chromosome inactivation during the acquisition of pluripotency. Required for efficient elongation of TSIX, a non-coding RNA antisense to XIST. Binds DXPas34 enhancer within the TSIX promoter.

Immunogen
Purified recombinant fragment of human ZFP42 (AA: 249-310) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

ZFP42 Antibody - Additional Information

Gene ID 132625

Other Names
Zinc finger protein 42 homolog, Zfp-42, Reduced expression protein 1, REX-1, hREX-1, Zinc finger protein 754, ZFP42, REX1, ZNF754

Dilution
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
FC~~1/200 - 1/400
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ZFP42 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ZFP42 Antibody - Protein Information

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Name ZFP42

Synonyms REX1, ZNF754

Function
Involved in the reprogramming of X-chromosome inactivation during the acquisition of pluripotency. Required for efficient elongation of TSIX, a non-coding RNA antisense to XIST. Binds DXPas34 enhancer within the TSIX promoter. Involved in ES cell self-renewal (By similarity).

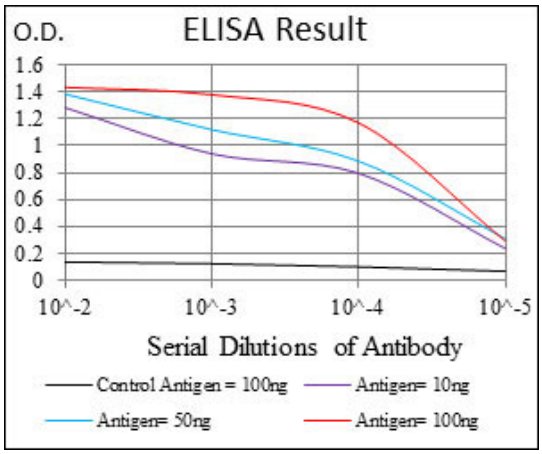
Cellular Location
Nucleus.

Tissue Location
Expressed in kidney, epidermal keratinocytes, prostate epithelial cells, bronchial and small airway lung epithelial cells (at protein level). Expressed in malignant kidney and several carcinoma cell lines (at protein level). Expressed in embryonic stem cells, kidney, epidermal keratinocytes, prostate epithelial cells, bronchial and small airway lung epithelial cells. Expressed in embryonal carcinomas, seminomas, malignant kidney and several carcinoma cell lines.

ZFP42 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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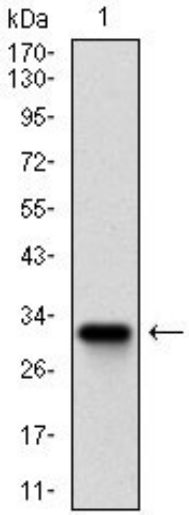

Figure 1: Western blot analysis using ZFP42 mAb against human ZFP42 recombinant protein. (Expected MW is 32.7 kDa)

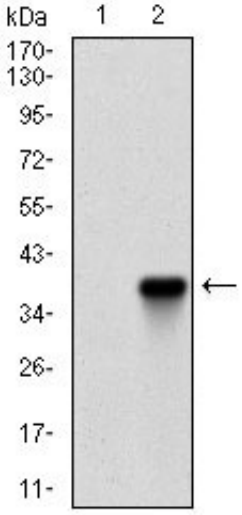

Figure 2: Western blot analysis using ZFP42 mAb against HEK293 (1) and ZFP42 (AA: 249-310)-hIgGFc transfected HEK293 (2) cell lysate.

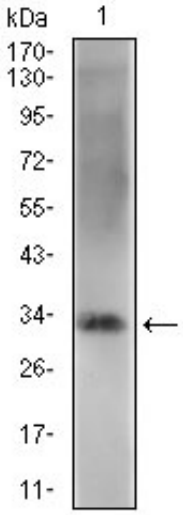

Figure 3: Western blot analysis using ZFP42 mouse mAb against NIH/3T3 cell lysate.

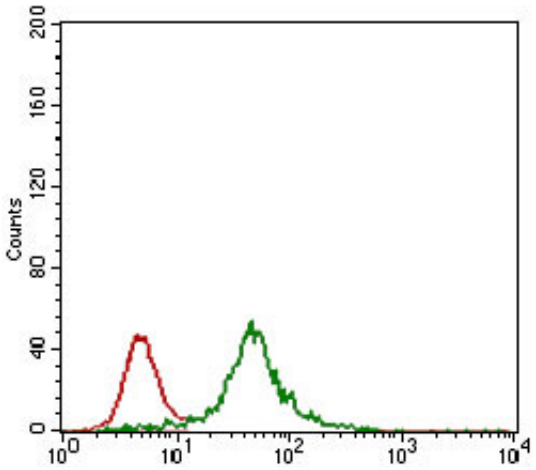

Figure 4: Flow cytometric analysis of HEK293 cells using ZFP42 mouse mAb (green) and negative control (red).

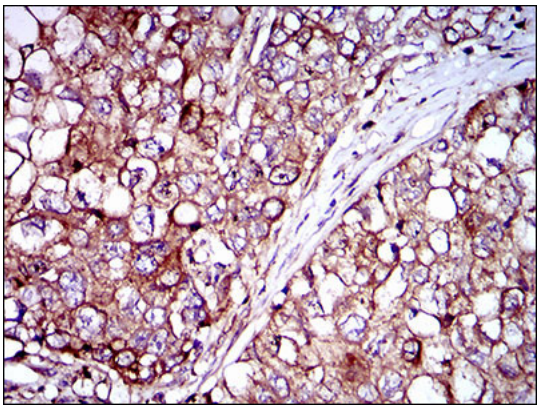

Figure 5: Immunohistochemical analysis of paraffin-embedded lung cancer tissues using ZFP42 mouse mAb with DAB staining.

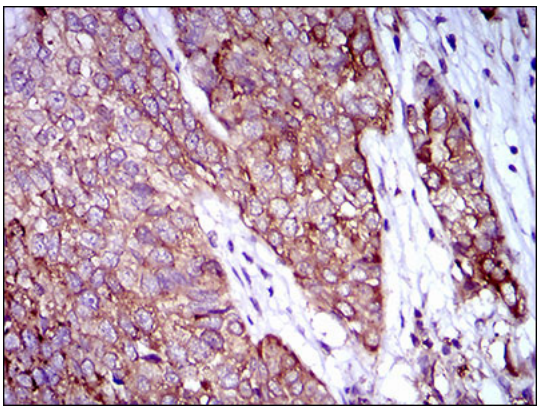

Figure 6: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using ZFP42 mouse mAb with DAB staining.

ZFP42 Antibody - Background

ZFP42 involved in the reprogramming of X-chromosome inactivation during the acquisition of pluripotency. Required for efficient elongation of TSIX, a non-coding RNA antisense to XIST. Binds DXPas34 enhancer within the TSIX promoter.

ZFP42 Antibody - References

1. Stem Cell Res. 2011 Jul;7(1):1-16. 2. J Cell Physiol. 2010 Jul;224(1):17-27.

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