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# ZFP42 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1816a

## Product Information

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| **Application** | WB, IHC, FC, E |
| **Primary Accession** | Q96MM3 |
| **Reactivity** | Human, Mouse |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Clone Names** | 5E11A6 |
| **Isotype** | IgG1 |
| **Calculated MW** | 34802 |
| **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 |

## Additional Information

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| **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. |

## Protein Information

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| **Name** | ZFP42 |
| **Synonyms** | REX1, ZNF754 |
| **Function** | Involved in the reprogramming of X-chromosome inactivation during the |

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|---|---|
| | 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. |

## 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.

## References

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

## Images

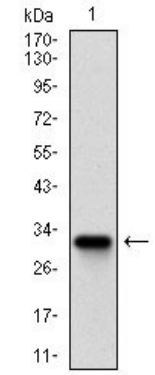



Figure 1: Western blot analysis using ZFP42 mAb against human ZFP42 recombinant protein. (Expected MW is 32.7 kDa)

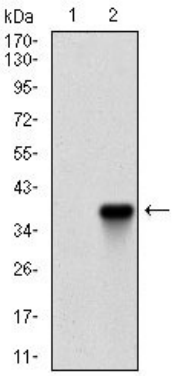
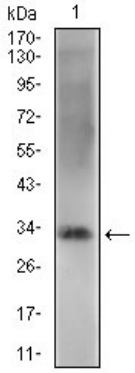



Figure 2: Western blot analysis using ZFP42 mAb against HEK293 (1) and ZFP42 (AA: 249-310)-hIgGFc transfected HEK293 (2) cell lysate.

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



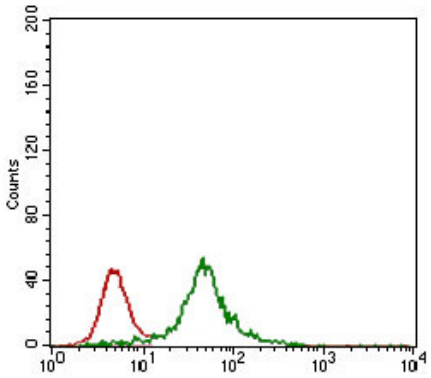




Figure 4: Flow cytometric analysis of HEK293 cells using ZFP42 mouse mAb (green) and negative control (red).

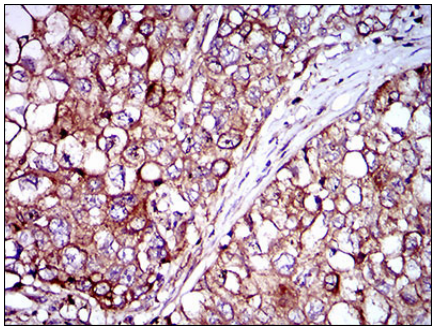


Figure 5: Immunohistochemical analysis of paraffin-embedded lung cancer tissues using ZFP42 mouse mAb with DAB staining.

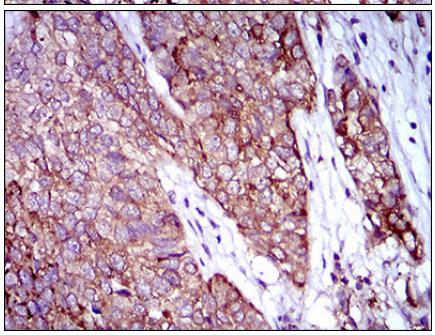


Figure 6: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using ZFP42 mouse mAb with DAB staining.