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

Product Information

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

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

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.

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

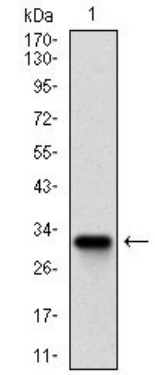


Figure 1: Western blot analysis using ZFP42 mAb against human ZFP42 recombinant protein. (Expected MW is 32.7 kDa)

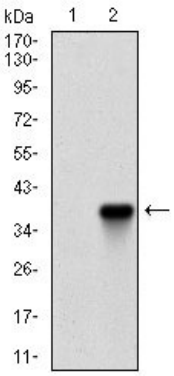
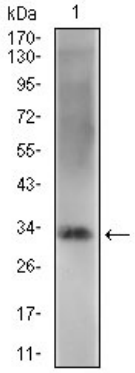


Figure 2: Western blot analysis using ZFP42 mAb against HEK293 (1) and ZFP42 (AA: 249-310)-hIgGFc transfected HEK293 (2) cell lysate.

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



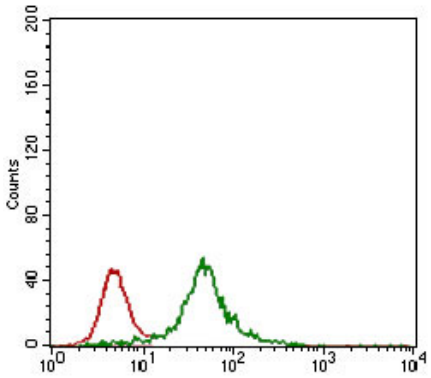


Figure 4: Flow cytometric analysis of HEK293 cells using ZFP42 mouse mAb (green) and negative control (red).

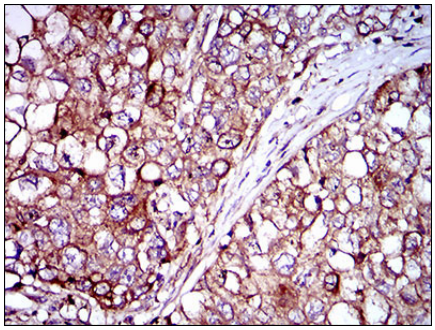


Figure 5: Immunohistochemical analysis of paraffin-embedded lung cancer tissues using ZFP42 mouse mAb with DAB staining.

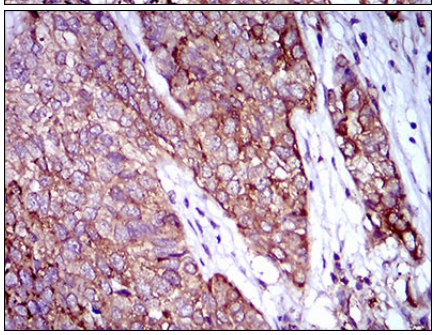


Figure 6: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using ZFP42 mouse mAb with DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.