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FOG1 Rabbit pAb

Catalog # AP97327

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8IX07
Other Accession	Q8IX07
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	104888
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FOG1
Epitope Specificity	1-100/1006
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the FOG (Friend of GATA) family. Contains 4 C2H2-type zinc fingers. Contains 5 C2HC-type zinc fingers.
SUBUNIT	Interacts with corepressor CTBP2; this interaction is however not essential for corepressor activity (By similarity). Interacts with the N-terminal zinc-finger of GATA1, GATA2 and probably GATA3.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Transcription regulator that plays an essential role in erythroid and megakaryocytic cell differentiation. Essential cofactor that acts via the formation of a heterodimer with transcription factors of the GATA family GATA1, GATA2 and GATA3. Such heterodimer can both activate or repress transcriptional activity, depending on the cell and promoter context. The heterodimer formed with GATA proteins is essential to activate expression of genes such as NFE2, ITGA2B, alpha- and beta-globin, while it represses expression of KLF1. May be involved in regulation of some genes in gonads. May also be involved in cardiac development, in a non-redundant way with ZFPM2/FOG2.

Additional Information

Gene ID	161882
Other Names	FOG; FOG1; ZC2HC11A; ZNF408; ZNF89A; FOG1_HUMAN; ZFPM1; Friend of GATA protein 1 (FOG-1 | Friend of GATA 1); Zinc finger protein 89A; Zinc finger protein multitype 1; ZFN89A; zinc finger protein, FOG family member 1; zinc finger protein, multitype 1; PR/SET domain 18
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ZFPM1
Synonyms	FOG1, ZFN89A
Function	Transcription regulator that plays an essential role in erythroid and megakaryocytic cell differentiation. Essential cofactor that acts via the formation of a heterodimer with transcription factors of the GATA family GATA1, GATA2 and GATA3. Such heterodimer can both activate or repress transcriptional activity, depending on the cell and promoter context. The heterodimer formed with GATA proteins is essential to activate expression of genes such as NFE2, ITGA2B, alpha- and beta-globin, while it represses expression of KLF1. May be involved in regulation of some genes in gonads. May also be involved in cardiac development, in a non-redundant way with ZFPM2/FOG2 (By similarity).
Cellular Location	Nucleus.
Tissue Location	Mainly expressed in hematopoietic tissues. Also expressed in adult cerebellum, stomach, lymph node, liver and pancreas Expressed in fetal heart, liver and spleen

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