



Rabbit Anti-FOG1 antibody

SL9451R

Product Name:	FOG1
Chinese Name:	GATABinding protein1 伴侣蛋白抗体
Alias:	FOG-1; FOG1_HUMAN; Friend of GATA 1; Friend of GATA protein 1; Friend of GATA1; ZFPM1; Zinc finger protein; Zinc finger protein 89A; Zinc finger protein multitype 1; Zinc finger protein ZFPM1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	105 kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FOG1:1-100/1006
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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).

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.

Subcellular Location:

Nucleus.

Tissue Specificity:

Mainly expressed in hematopoietic tissues. Also expressed in adult cerebellum, stomach, lymph node, liver and pancreas. Expressed in fetal heart, liver and spleen.

Similarity:

Belongs to the FOG (Friend of GATA) family.

Contains 4 C2H2-type zinc fingers.

Contains 5 C2HC-type zinc fingers.

SWISS:

Q8IX07

Gene ID:

161882

Database links:

[Entrez Gene: 161882](#)Human

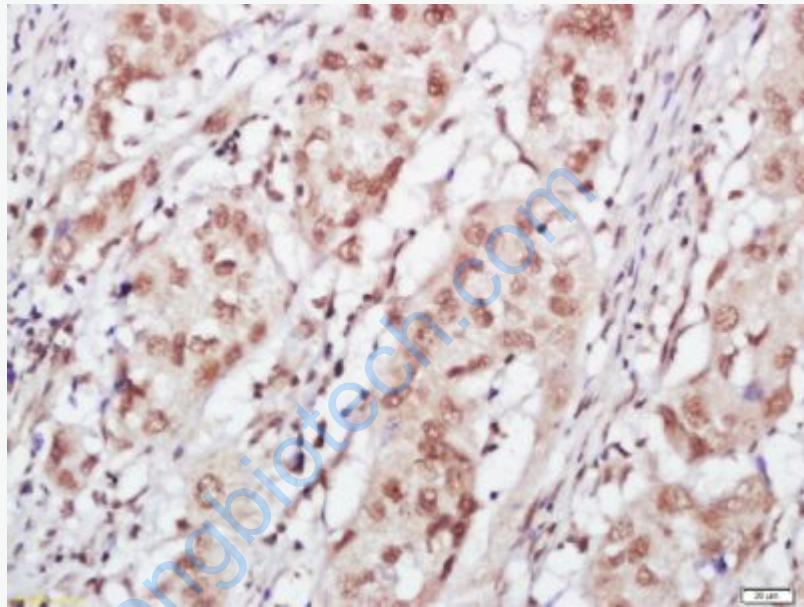
[Omim: 601950](#)Human

[SwissProt: Q8IX07](#)Human

[Unigene: 632218](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: human esophageal carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-FOG1 Polyclonal Antibody, Unconjugated(SL9451R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining