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Rabbit Anti-FREAC3 antibody

SL6642R

Product Name:	FREAC3
Chinese Name:	叉头相关转录因子3/FOXC1抗体
Alias:	ARA; FKH L7; FKHL 7; FKHL7; Forkhead (Drosophila) like 7; Forkhead; forkhead box C1; Forkhead box protein C1; Forkhead drosophila homolog like 7; Forkhead like 7; Forkhead related activator 3; Forkhead related protein FKHL7; Forkhead related transcription factor 3; Forkhead-related protein FKHL7; Forkhead-related transcription factor 3; FOX C1; FOXC 1; FOXC1; FOXC1_HUMAN; FREAC 3; FREAC-3; FREAC3; homolog-like 7; IGDA; IHG 1; IHG1; IRID 1; IRID1; Iridogoniodysgenesis type 1; Myeloid factor delta.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/testIF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FOXC1/FREAC3:101-200/553
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:	Binding of FREAC-3 and FREAC-4 to their cognate sites results in bending of the DNA

at an angle of 80-90 degrees.
Involvement in disease; Defects in FOXC1 are the cause of Axenfeld-Rieger syndrome type 3 (RIEG3); also known as Axenfeld-Rieger syndrome (ARS) or Axenfeld syndrome or Axenfeld anomaly. It is characterized by posterior corneal embryotoxon, prominent Schwalbe line and iris adhesion to the Schwalbe line. Other features may be hypertelorism (wide spacing of the eyes), hypoplasia of the malar bones, congenital absence of some teeth and mental retardation. When associated with tooth anomalies, the disorder is known as Rieger syndrome. Glaucoma is a progressive blinding condition that occurs in approximately half of patients with Axenfeld-Rieger malformations.

Function:
Binding of FREAC-3 and FREAC-4 to their cognate sites results in bending of the DNA at an angle of 80-90 degrees.

Subunit:
Monomer.

Subcellular Location:
Nucleus.

Tissue Specificity:
Expressed in all tissues and cell lines examined.

DISEASE:
Defects in FOXC1 are the cause of iridogoniodysgenesis anomaly (IGDA) [MIM:601631]. IGDA is an autosomal dominant phenotype characterized by iris hypoplasia, goniodysgenesis, and juvenile glaucoma.
[DISEASE] Defects in FOXC1 are a cause of Peters anomaly (PAN) [MIM:604229]. Peters anomaly consists of a central corneal leukoma, absence of the posterior corneal stroma and Descemet membrane, and a variable degree of iris and lenticular attachments to the central aspect of the posterior cornea.

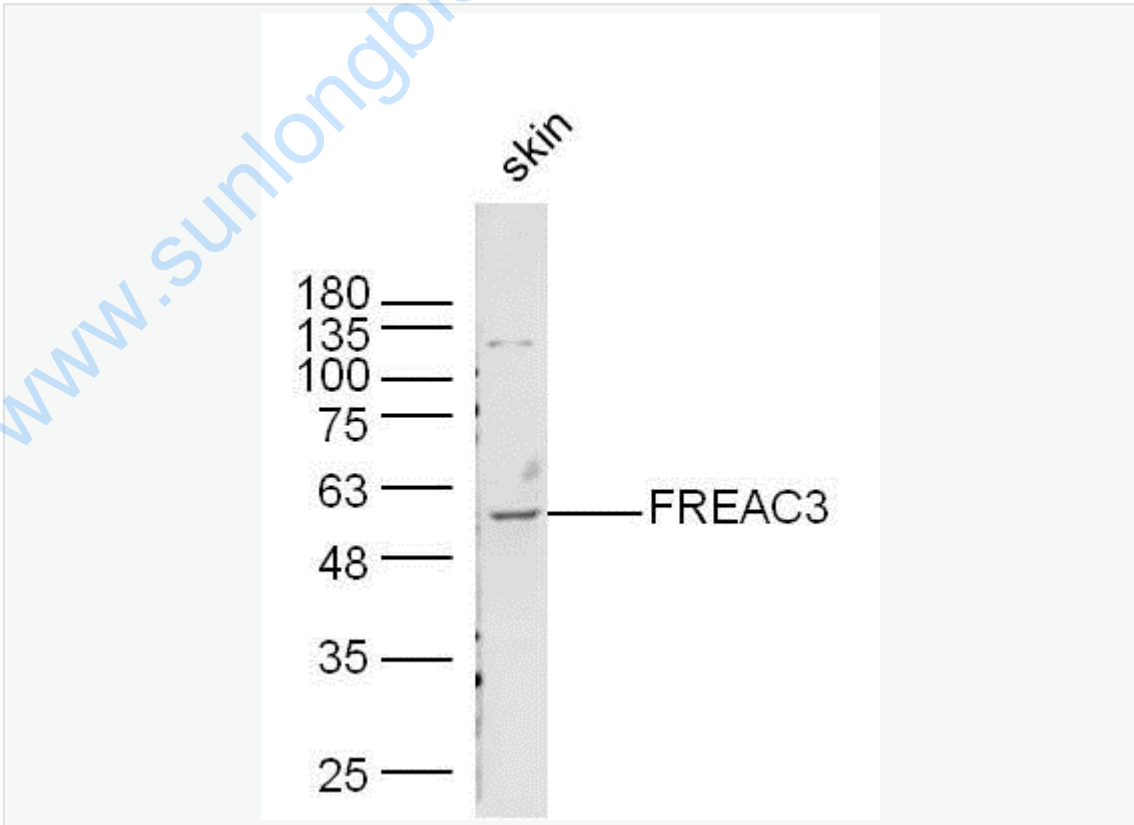
Similarity:
Contains 1 fork-head DNA-binding domain.

SWISS:
Q12948

Gene ID:
2296

Database links:

Entrez Gene: 2296 Human

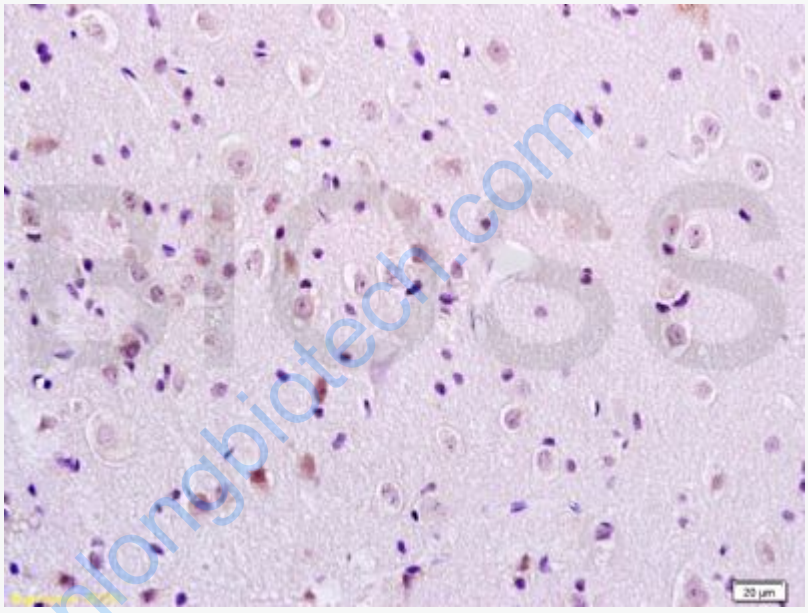
	Entrez Gene: 17300 Mouse GenBank: NP_001444 Human Omim: 601090 Human SwissProt: Q12948 Human SwissProt: Q61572 Mouse SwissProt: Q32NP8 Xenopus laevis Unigene: 348883 Human Unigene: 12949 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Skin (Mouse) Lysate at 40 ug

Primary: Anti-FREAC3 (SL6642R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

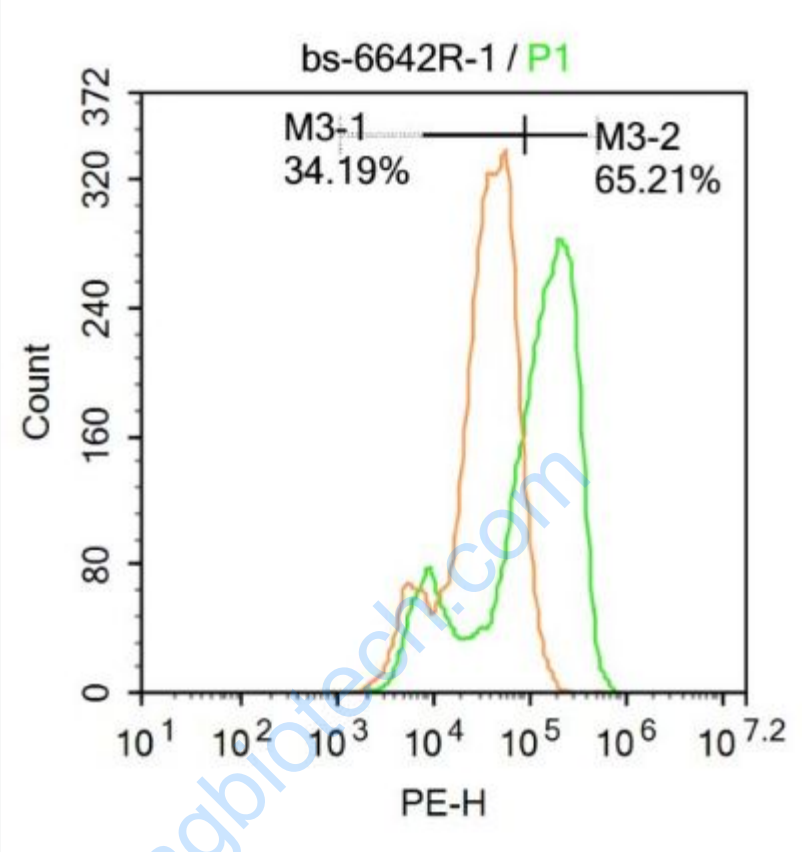
Predicted band size: 57 kD

Observed band size: 57 kD



Tissue/cell: rat brain tissue; 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℃ for 20 min;

Incubation: Anti-FOXC1/FREAC3 Polyclonal Antibody, Unconjugated(SL6642R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:A431.

Primary Antibody (green line): Rabbit Anti-FREAC3 antibody (SL6642R)

Dilution: 1μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF647

Dilution: 1μg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room

	temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.