



Rabbit Anti-TFCP2C antibody

SL9852R

Product Name:	TFCP2C
Chinese Name:	转录因子CP2抗体
Alias:	Alpha globin transcription factor CP2; CP2; LBP 1C; LBP1C; LSF; SAA3 enhancer factor; SEF; TFCP2; TFCP2C; Transcription factor CP2; Transcription factor LSF; TFCP2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Sheep,
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:	57kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TFCP2C:201-300/502
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:	CP2 family gene products are reported to be involved in a-globin gene expression. Mouse CP2c (also known as a-CP2/CP2/LSF/UBP-1) is a homologue of human LBP-1c with 96% amino acid sequence identity. CP2c was initially identified as an activator of the mouse a-globin gene, which binds to the consensus DNA-binding sequence CNRG-N6-CNR(G/C) within a promoter element overlapping the CCAAT box. The

transcriptional activity of CP2c was increased during induced differentiation of MEL cells and associated globin gene transcription. CP2c is also likely to be involved in regulation of non-globin erythroid-specific genes. It was reported that congenital erythropoietic porphyria was caused by the mutations in GATA-1 and CP2c binding sites within the promoter of the uroporphyrinogen III synthase gene, the fourth enzyme in the heme biosynthetic pathway.

Function:

Binds a variety of cellular and viral promoters including fibrinogen, alpha-globin, SV40 and HIV-1 promoters. Activation of the alpha-globin promoter in erythroid cells is via synergistic interaction with UBP1. Functions as part of the SSP (stage selector protein) complex. Facilitates the interaction of the gamma-globin genes with enhancer elements contained in the locus control region in fetal erythroid cells. Interacts by binding to the stage selector element (SSE) in the proximal gamma-globin promoter.

Subunit:

Binds to DNA as a dimer, isoform 3 does not bind to DNA or affect the binding of isoform 1 to DNA. Interacts with UBP1 and PIAS1, and is probably part of a complex containing TFCP2, UBP1 and PIAS1. Component of the SSP (stage selector protein) complex, which appears to be a heteromer of TFCP2 and 2 copies of NFE4.

Subcellular Location:

Nuclear.

Tissue Specificity:

Ubiquitous. Expressed in brain, ovary, kidney, thymus, spleen, liver, adrenal, heart and lung (at protein level).

Similarity:

Belongs to the grh/CP2 family. CP2 subfamily.

SWISS:

Q12800

Gene ID:

7024

Database links:

[Entrez Gene: 7024](#)Human

[Entrez Gene: 21422](#)Mouse

[Entrez Gene: 315309](#)Rat

[Omim: 189889](#)Human

[SwissProt: Q7T2U9](#)Chicken

[SwissProt: Q12800](#)Human

[SwissProt: Q9ERA0](#)Mouse

[Unigene: 48849](#)Human

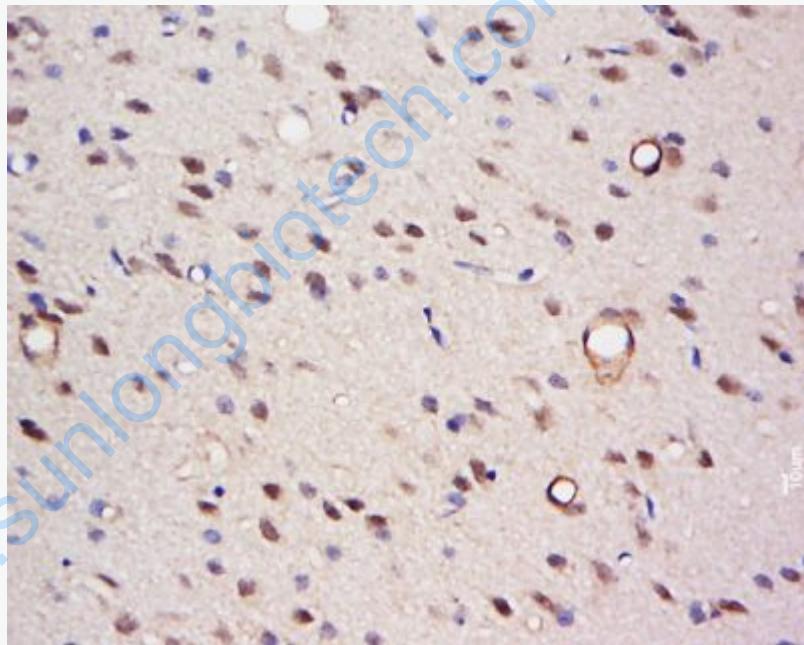
[Unigene: 219040](#)Mouse

[Unigene: 202290](#)Rat

Important Note:

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

Picture:



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°C for 20 min;

Incubation: Anti-TFCP2C Polyclonal Antibody, Unconjugated(SL9852R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and

	DAB(C-0010) staining
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