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TFCP2C Rabbit pAb

Catalog # AP98028

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q12800
Other Accession	Q12800
Reactivity	Rat
Predicted	Human, Mouse, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57256
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TFCP2C
Epitope Specificity	201-300/502
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 grh/CP2 family. CP2 subfamily.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	7024
Other Names	LBP1C; LSF; LSF1D; SEF; TFCP2C; CP-2; CP2; D230015P20Rik; LBP-1c; LBP-1d; LBP1; Tcfcp2; UBP-1; TFCP2_CHICK; TFCP2; TFCP2_HUMAN; SAA3 enhancer factor; Transcription factor LSF; TFCP2_MOUSE; transcription factor CP2

Dilution	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	TFCP2
Synonyms	LSF, SEF
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 (By similarity). 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.
Cellular Location	Nucleus
Tissue Location	Ubiquitous. Expressed in brain, ovary, kidney, thymus, spleen, liver, adrenal, heart and lung (at protein level)

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